

Manufacturers Record

Exponent of America



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Baltimore,
OCTOBER 16, 1924

An English View.

Geo. S. Rogers, 1 Central Building, Westminster, London, in the course of a letter to the Manufacturers Record said:

"I was discussing your paper with a leading Manchester provision merchant the other day, deploring the fact that my copy had not come to hand. I asked him if he had ever heard of it. 'Heard of it!' he exclaimed with righteous indignation, 'Why, sir, I feed on it. I wish we had something like it to make people sit up and take notice in this country!'"

We are trying to make people "sit up and take notice." We are trying to make the people of the South do this in order that they may have a new inspiration as to their own country and its possibilities. We are trying to make the people of other sections "sit up and take notice" as to the South and its opportunities, and apparently we are making people in foreign lands likewise "sit up and take notice."

The Manufacturers Record has often been requested to establish a paper similar to the Manufacturers Record to do for the entire Pacific Coast what it has been doing for the South. We have no doubt but what if this were feasible the paper would receive the unstinted co-operation of the business men of the entire Pacific Coast and likewise the hearty co-operation of railroads and commercial organizations to a far greater extent than the railroads and most of the corporations of the South give to any publication issued in the interest of this section. Broadly speaking, it may be said that the South has not yet fully awakened, and this complaint we are constantly hearing from Southern people. If there could be infused into every state in the South the enthusiasm, the activity, the tireless energy which is being put forth in Florida, there would be such a development throughout the South as has not been seen anywhere else in this country. Florida's great enthusiasm, brimming over with life, is drawing thousands of people even from other Southern states who would remain at home and take part in home development if they found at home the same kind of life and activity as exists in Florida.

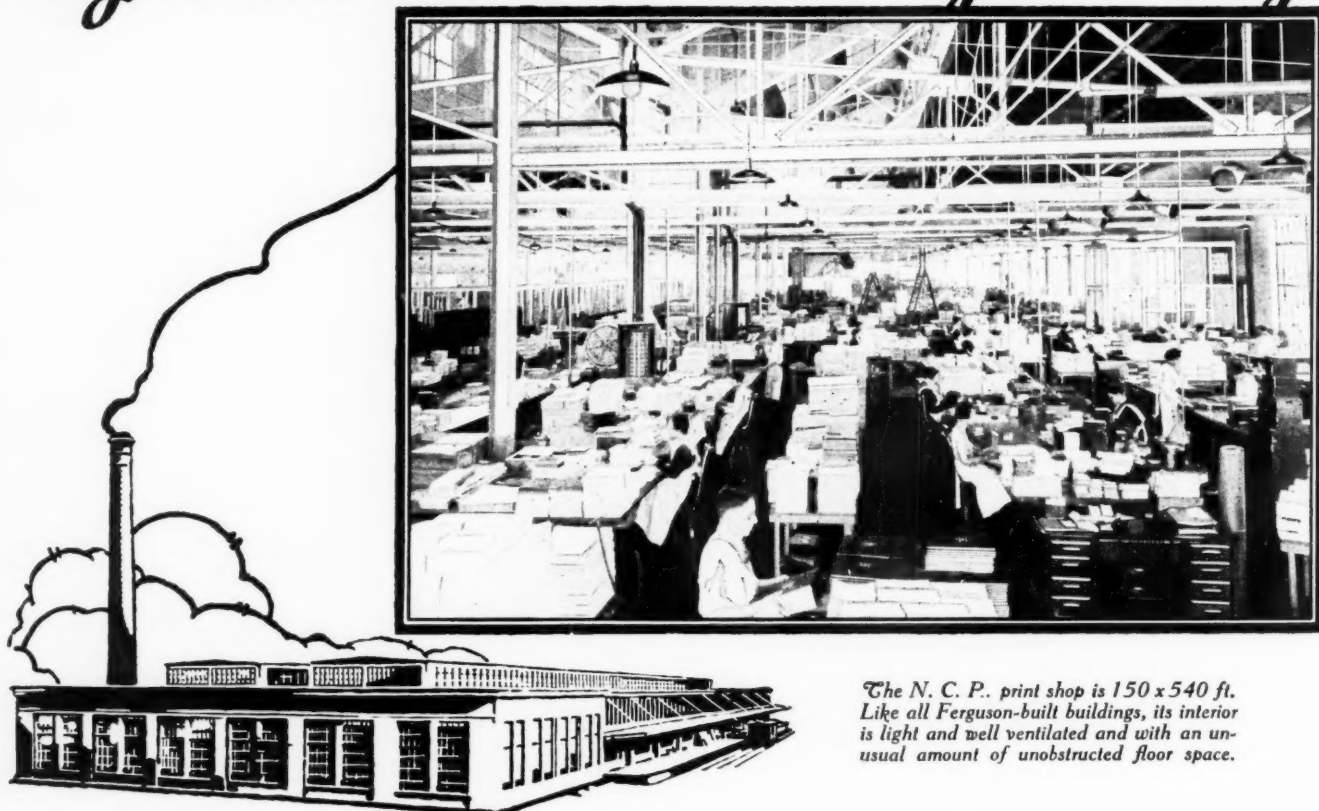
While, as stated, we have often been requested to publish a Pacific Coast paper, and equally as often to publish a newspaper to cover the entire country as the Manufacturers Record covers the South, the letter from Mr. Rogers which we have quoted is the first suggestion that some of the people of England would like to have us do for Great Britain in the way of publication work what we are doing for the South.

Speaking on this subject, we may be pardoned in publishing a letter from Wm. J. Spencer of the Department of Commerce, who, writing under date of September 26, paid the following high tribute to this publication:

"It happens that I am now engaged in the preparation of facilities and organization for the newly organized Division of Domestic Commerce.

"I have just read through 'Facts About the Manufacturers Record.' At the present moment I am utilizing an extensive experience in industrial development and management relating to regional studies for the benefit of American industries, and I want to compliment you in having prepared the most comprehensive, readable and valuable economic regional publication that has appeared. Such compilations are too infrequently prepared, and it is superior to any as yet. The Record is one of the few journals that I read cover to cover of every issue. You are carrying out the work and duty of journalism to the superlative degree."

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OCTOBER 16, 1924

Manufacturers Record

Exponent of America



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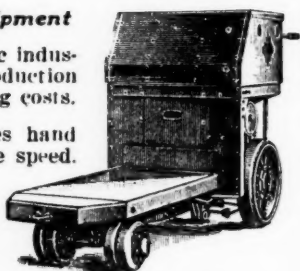
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Manufacturers Record

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of the South and Southwest as the Nation's Greatest Material Asset

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Wake Up, Americans!

NOMINALLY, Senator Robert M. La Follette is an independent candidate for President of the United States. Actually, he is the personification of the world Communist movement which is working to foment a bloody revolution in this country. In reality, he is the tool—and from his own words and associations a not unwitting tool—of the Communists who are working to overthrow the American Government and destroy law and order in this country and all the world.

Until his death, last August, R. M. Whitney, director of the Washington branch of the American Defense Society, of which the late Theodore Roosevelt for years was honorary president, was a deep student of communism and Communist activities, and was accepted as an authority on those subjects. He left as a legacy to the land a pamphlet entitled "La Follette—Socialism—Communism," showing the affinity between La Follette and the Communists and disclosing, from the Communists' own program, the "revolution" which is to follow La Follette's election, if such a disaster should occur. If Mr. La Follette is not willingly accepting the backing of this crowd, let him say so and denounce their activities.

The program of the Communist party for the United States is thus described by John Pepper (right name Pogany), a leader of the world Communists from the time of the inception of that movement. Said Pepper in the *Liberator*, September, 1923, pages 9 to 12:

"The coming third revolution (the La Follette 'revolution') will not be a proletarian revolution. It will be a revolution of well-to-do and exploited farmers, small business men and workers. The revolution will come through the ballot and, as Magnus Johnson foretells, through the force of arms. It will come through rebellions within the old parties, third parties, farmer-labor parties. It will contain elements of the great French Revolution and the Russian Kerensky revolution."

And then, adds Pepper, will be opened the "fourth revolution"; or, in his own words:

"After the victory of this La Follette revolution there will begin the independent role of workers and exploited farmers, and there will begin, then, the period of the fourth American revolution—the period of the proletarian revolution."

And what are the sentiments of Senator La Follette, figurehead of the blood-revolution Communist? One excerpt from his article in the *Machinists' Monthly Journal*, September, 1923, page 421, will indicate:

"Can the voters make their Government free again? Can they break the combined power of private monopoly which controls in every department? Can they drive out the money-changers and bring government back to the people?"

"Where are the people to find protection? Will the Government furnish it? Can they find it in the law? Bah! The private monopoly system is the Government. Private monopoly makes and administers the law."

Senator La Follette is chairman of the executive committee of the People's Legislative Service, in which the national council numbers among its membership Mrs. Florence Kelley (Wischnewetsky), Frank P. Walsh, Prof. E. A. Ross, Rabbi Judah L. Magnes, Prof. Robert Morse Lovett, Oswald Garrison Villard, Frederick C. Howe, Rev. R. W. Hogue, Rev. John Haynes Holmes, Gilson Gardner, Mrs. Elizabeth Glendower Evans, Mrs. Harriet Stanton Blatch, Rev. Samuel Z. Batten, Miss Jane Addams. Pages of Mr. Whitney's pamphlet are devoted to emphasizing at least the active sympathy of these persons with Socialist and Communist movements. For instance, as he puts it:

"At the trial of Ruthenberg at St. Joseph, Mich., for Ruthenberg's connection with the Bridgman convention of the Communists, Walsh seems to be in complete agreement with the Communist theory, for he says:

"Who will dare challenge that history does not show the facts as stated by the Communists? We may hope that the final working out of the problem will come otherwise than through civil war, but the facts of the past struggles and the present cannot be denied."

"Following this statement of Walsh, the Court charged that the advocacy of Soviets and of the dictatorship of the proletariat might impliedly be taken as an advocacy of force."

Incidentally, Ruthenberg, for whom Walsh was counsel, was convicted in that trial.

Finally, Mr. Whitney lists and describes the many communistic organizations by which La Follette and his present "revolution," as John Pepper (Pogany) describes it, are supported in this campaign.

La Follette stands exposed by the company he keeps as the figurehead and personification of the bloody communistic movement, unless he denies his alliance and affiliation with such interests.

The entire pamphlet bristles with innumerable facts as remarkable as those we have quoted, showing by overwhelm-

ing documentary evidence the definite proof of the whole revolutionary campaign of the communistic element now under way in this country. Those who affect to believe that there is no danger ahead are living in a fool's paradise.

SULLY DISCUSSES COTTONSEED DETERIORATION AND INFERIOR STAPLE AS A RESULT.

San Diego, Cal., October 2.

Editor Manufacturers Record:

You are undoubtedly noting that many people are beginning to think—with our esteemed friend Martin Dantzler and myself—with reference to this crop, and, as time goes on, there will be many more coming to the same conclusion.

There are many factors with relation to this crop which those who should be deeply interested are either ignoring or not taking into proper consideration, and one of these is the serious deterioration of the quality of the staple of the cotton grown in the South. This is so pronounced, in my estimation—and on which I base many of my calculations—that it is of a nature that when it goes into the mill and they endeavor to get the usual normal production from a pound of cotton, they will be greatly disappointed, and, in my opinion, while it may not decrease the actual bales of cotton that many think it will, it will nevertheless make itself seriously felt in the lack of cotton cloth that the cotton will produce. In my opinion, the present crop, when the lint that will be taken and spun into cloth, will not produce within 10 per cent of the cloth that the same number of pounds of cotton would last year, and when you take 10 per cent with this calculation on 12,000,000 bales of cotton, it will bring it down to 10,800,000 bales.

This is not the only serious factor in relation to this present crop of cotton, but it is that which is going to be indefinitely continued just as long as the seed is allowed to deteriorate at the rate now going on.

It would seem to me that the manufacturers of America should realize this as thoroughly as I do, and make it a study for co-operation with themselves and the farmers of the South, and by some means that would be controlled by practical and efficient men to create a basis whereby, under the auspices of this body, the entire seed product of the South would be taken and controlled under factors that would for future time endeavor to create a seed that would have a more productive quality than it has at present.

DANIEL J. SULLY.

TARIFF NOT HIGH ENOUGH FOR HIM.

J. F. MAKEPEACE of the Makepeace Box & Lumber Co., Inc., of Sanford, N. C., is evidently an enthusiastic believer in a tariff. He expresses his views with vigor and he is not afraid to say what he believes. That is the kind of man who will count for something in this world where backbone is much needed. In a letter to this paper Mr. Makepeace says:

"I have just been reading your issue of yesterday. I note with interest the letter from the contractor in West Virginia who does not agree with you on your stand on the tariff. My father and grandfather ahead of me were staunch Democrats, but I am proud of the fact that I have a chance to vote for a party that proclaims high tariff. I fully believe that if our country had to compete with all the foreign countries, we would be 500 years behind what we are now enjoying. I would like to see the tariff walls so high around this country of ours that Germany could not take one of their high-powered guns and shoot a five-cent toy over them if it came in competition with something made in this country. Keep up the good work you are carrying on for the South. Do not feel discouraged."

The Reality to Surpass Promises.

It matters not how much praise we have given to "The South's Development," the reality will surpass all that we have promised. The publication is going to be monumental in size and in value. It will be a record for many years to come of all things pertaining to the South—past, present and future. No man who has the interest of his own children at heart can afford to neglect the opportunity of having them read the illuminating stories about the South, past and present, in "The South's Development." Nor should any Southern man fail to convert some Northern or Western friend to the truth about this section.

"The South's Development" will be a little different from anything that has ever been issued by us or, so far as we know, by anyone else of any section. If any subscriber to a copy, or to a hundred copies, after receiving them is not satisfied that it is worth far more to him than the cost price, he can have his money refunded.

"The South's Development" will be printed on fine paper. It will be profusely illustrated. Each copy will weigh about four pounds and every pound will be worth more to thoughtful men and women than an English pound sterling.

THE GERMAN LOAN.

ELSEWHERE in this issue appears an advertisement of the banking houses which are placing the German bond loan in this country. But though this loan is the carrying out of the Dawes Plan and has the backing of the financial houses that are issuing it, the MANUFACTURERS RECORD, as it has repeatedly said of late, unhesitatingly advises the American people not to invest in this loan unless they want to gamble on the honor and financial integrity of Germany.

In accepting this advertisement we are simply giving to our readers the opportunity of hearing what the bankers in this way desire to say in regard to this loan, but the opinion of the MANUFACTURERS RECORD has in no way whatever changed from the stand which we have taken urging the American people not to invest in German securities. We believe there are better loans available in this country so far as the rate of interest is concerned, and infinitely better from every other standpoint backed by American business security and the honor and integrity of American people.

A statement in the advertisement carries a distinct intimation that if there should be any default in the payment of the interest on these bonds a large number of countries, mentioned by name, would see that "sanctions" were applied. This is a term apparently coined recently for the purpose of making it sound a little softer than "enforcement by the power of armies and navies." The United States, we are glad to say, is not included in this list; but we would like to know if there is any secret understanding by which, if Germany should default, this country would join the Allies and other nations in bringing war pressure upon Germany to force the payment of the loan.

Tradition and loyalty are two fine things—too fine to be wasted by the South at the altar of the idol of free trade.

HIGHWAYS CAN NOW BE BUILT WITHOUT COST.

IN Kentucky and Tennessee one of the great questions of the present campaign to be settled at the next election is the issuance of bonds for highway improvement, the Kentucky question also to include bonds for educational expansion.

If the people of these two states are wise, they will surely vote overwhelmingly for these bond issues. A few years ago there might have been a reasonable excuse for not issuing bonds for good highways, for fear that this would increase taxation, but surely that time has long since passed.

The gasoline tax, which has come into existence by reason of the automobile industry, provides a way of taking care of the interest on bonds and for their ultimate redemption. It is a tax which should pre-eminently go to work of this kind.

It has been proven by North Carolina's experience that the bonds issued for the superb highway work that is being done there do not cost the state anything; nor do they cost any of the people of the state, even those who pay the gasoline tax, anything. It is a remarkable proposition, unique in all public work, of ability to secure money for a vast expenditure for highways without in reality adding one dollar of burden of any kind to the people of the state.

The gasoline tax in North Carolina, which, as our readers know, has been for several years building one of the finest highway systems in America, will take care of the interest on the bonds and their redemption. But, some may ask, is not this gasoline tax a burden on the people? It is not. It is paid only by the automobile and motortruck people, and they find that the consumption of gasoline using good roads as compared with bad roads is so much lessened that they are saving money by paying the tax on gasoline. They are likewise saving on their tires, on repairs and on the length of life of their cars.

The automobile users are, therefore, getting these splendid highways absolutely without cost to themselves, and securing thereby longer life for their cars and tires, greater comfort for themselves in traveling, and greater ability to get around the state and do business. They are, therefore, actually making a profit by paying the gasoline tax.

Some years ago, under the leadership of a Governor who had a vision of what good roads would mean to the state, and long before anyone had ever thought of a gasoline tax, and, indeed, when there were only a few automobiles in the country, Maryland voted a bond issue for the building of highways. It shocked a lot of people who had been willing to put up with bottomless mud roads in winter and equally bottomless sand roads in some sections, and who never seemed to realize that the state would be enriched and all the people vastly benefited by a system of good roads. A motor trip then from Baltimore to the state capital, Annapolis, 28 miles distant, was a journey to be looked upon with dread, for no one ever knew when he would get to the journey's end, so deep and almost impassable was the sand. The writer was standing one day in a large Baltimore garage when the car of a foreign Ambassador had just arrived after taking five hours to come from Washington to Baltimore, a distance of less than forty miles!

Now the road to Annapolis is a splendid highway, travelled every day by hundreds of farmers' automobiles and motortrucks bringing the produce to market, and the road between Washington and Baltimore carries an almost endless stream of motortrucks and automobiles. This state never made a wiser investment than when it issued bonds for building this and many other highways, which have given Maryland the reputation throughout the country of

having one of the best general road systems in the country, whereas prior to that bond issue it had the reputation of having about the worst

The whole business life of Maryland and North Carolina, and, indeed, of every other state which has carried out highway building on a large scale, has been revolutionized to the good of the people. The farmers are in better shape, the schools are better attended, the business of the state has greatly advanced, and no one would for one moment today criticize the movement which led to these bond issues.

Florida has been almost made over in the last ten or fifteen years by its highway construction. About 100,000 cars owned outside of the state annually move into Florida, carrying several hundred thousand people, and the abounding prosperity of that state has been largely the outcome of highway building based on such bonds.

With all of their superb natural advantages, with resources which should have made Kentucky and Tennessee outstanding leaders in the nation's progress, they have in some respects halted by the wayside. They have hardly caught the vision of what can be accomplished for the good of all classes, and pre-eminently for the good of farmers, by the building of highways.

The plan of building highways on the pay-as-you-go system is out of date. It means that it will take decades to accomplish the results which could be accomplished in three or four years by a large bond issue enabling the states to do on a large scale, and aggressively, the work of building highways throughout the entire state.

The states which halt in issuing bonds under the conditions of the gasoline tax now prevailing are dooming hundreds of thousands of their people to inadequate facilities for farm work, for marketing farm products, for educational progress and for all that makes for the upbuilding of a people morally, educationally and materially.

The good highway is the most powerful factor which in this day and generation can be utilized for upbuilding a state and advancing every interest of its people.

The MANUFACTURERS RECORD trusts that every state in the South which has this problem before it will overwhelmingly vote for the issue of bonds for highway building or for the advancement of education, if school facilities are inadequate, in order that they may put themselves in the line of progress and keep step with sister states which have already led them, and which will go still further ahead unless the states now considering bond issues vote for them and carry forward the work honestly, intelligently and vigorously as rapidly as possible.

HOW FLORIDA AFFECTS A CINCINNATI MINISTER.

REV. DR. CHAS. F. GOSS of Cincinnati, who has a winter home in Florida, spent much of the summer in traveling through Europe. Having just reached his Florida home in Daytona, he writes a letter to the editor of the MANUFACTURERS RECORD, in the course of which he says:

"I would rather be here than in London, Edinburgh, Rome, Geneva, Paris or all of them put together.

"If a day like this should dawn on Baltimore or Cincinnati the bells would ring, the whistles blow, the people get out of doors and scream with delight."

Some people might think that Dr. Goss, judging from this extract from his letter, is somewhat of an enthusiast on the climate of the section where he spends his winters, but his enthusiasm is not overdrawn. Sometimes he writes the editor of this paper from his Cincinnati home: "I am longing to get back to Paradise," and the Paradise to which he refers is Florida.

The South The Nation's Greatest Material Asset.

HENRY M. LELAND of Detroit, often referred to among the business men of the country as "that Grand Old Man of Detroit," in a letter to the *Manufacturers Record* about our special publication, "The South's Development," writes:

"I have carefully read the list of contributors and think that you have again laid the country under deep obligation to you in your magnificent work for the upbuilding of our country, both North and South. I shall be glad to have ten extra copies of the publication when it is issued."

This is the spirit with which many people in the North and West, as well as Southern people, are looking upon "The South's Development." They realize that the South, viewed from the standpoint of natural resources and advantages, is the greatest asset of this country, and that the full utilization of these resources will add enormously to the wealth and power of the country and to the strength of our Government, at home and abroad.

We have arranged with a number of men outside of the South, such as Secretary Hoover, Secretary Wallace, Governor Crissinger of the Federal Reserve Board, Harry F. Atwood, president of the Constitution Anniversary Association, and many others to give us special articles on the South, in order that the viewpoint of leaders in national and business affairs might carry a greater weight throughout the country.

These articles, many of which are already in type, will prove a great awakening to thousands of people who now think they are already well informed as to the South. No business concern in America which seeks, directly or indirectly, to do business with the South or in the South should miss the opportunity of studying the truly amazing facts which will be set forth in "The South's Development." We can afford without the slightest egotism to commend that publication in the strongest language we can use, because the outstanding contributions which will make it of national and, indeed, of international value are by men not connected with this paper and many of them of other sections in no way directly interested in the South.

We trust, therefore, that thousands, and, indeed, many thousands, of business men of the North and West as well as of the South will follow the good example of Mr. Leland.

HIDING ITS LIGHT UNDER A BUSHEL.

COMMENTING on the statement made in a recent issue of the *MANUFACTURERS RECORD* by the engineer of the Tennessee Railroad and Public Utilities Commission that Tennessee generates annually, both by water-power and by steam, more energy than is generated in North Carolina, the *Charlotte Observer* says: "Tennessee has done wonders in electrical development in recent years, but the state has lacked the publicity it deserves. What's the use of having an abundance of a good thing unless we let the people know about it? If Tennessee really has more developed water-powers than North Carolina, then the papers of that state would, it appears to us, have a subject for daily discussion until the world should know and understand."

The *Observer* might have added that it is not simply a matter for the state powers of Tennessee to put forth this

kind of publicity, but the towns and cities and counties, and the state of Tennessee itself, should make these facts known through the widest possible publicity campaign. A light hid under a bushel is not of much value to anyone, and Tennessee is certainly hiding its light under a bushel when it has these great power developments without making the facts widely known.

THE ORGANIZED LABOR VOTE.

MUCH is made in newspaper political discussion of an indicated tendency of organized labor to enlist in support of Senator Robert Marion La Follette in his campaign for the Presidency, and speculation is lively as to the result on the two great political parties from such independent course of organized labor.

To observers of political events it is evident that the general assumption that organized labor will vote as a unit is absolutely incorrect—unless the tiger has changed its stripes. Organized labor never votes as a unit; furthermore, whenever it does show such tendency, it never "stays put." The rank and file of organized labor, though generally subservient to the dictation of its self-constituted bosses in most labor matters, usually manifest individual independence when it comes down to local, state or national elections. Sam Gompers or Warren Stone or any other labor boss is unable to deliver the massed votes of the workers when they step into the polling booth. The union worker may endure the burden of industrial slavery imposed on him by labor "leaders," but such political tyranny would be the proverbial "last straw" and might move him to revolution against organized labor.

Somehow the ignorant and cowardly members of both branches of Congress never have grasped this fact. Cowed by the threats of organized labor leaders, they see in the unions a united political body of several million workers, and they bow the knee to organized labor.

Organized labor in this country does not vote as a unit. It cannot be delivered en bloc to any party or candidate. And the sooner the political party leaders and the ignorant and cowardly statesmen, so-called, at Washington take this fact to heart, the better it will be for the country at large and also for organized labor.

SOUTHERN MEETING OF THE AMERICAN INSTITUTE OF MINING AND METALLURGICAL ENGINEERS.

THERE is being held in Birmingham at the moment the annual meeting of the American Institute of Mining and Metallurgical Engineers. This is one of the most important business organizations of the country, representing the entire mining and metallurgical interests of the United States. The visit of its members to the South will prove of great value to this section and of great interest to them. They started from Washington last week on a special train, going by way of east Tennessee, stopping at various points to study the mineral interests and the metallurgical development of that section, and this week are gathered in Birmingham to hear many addresses of importance and to visit all parts of that district and see for themselves what Alabama has in the way of mineral resources and what it has accomplished in the beginning of their utilization, for the beginning only has as yet been made.

The South is to be congratulated upon this meeting, and the members are to be congratulated upon the opportunity of seeing the South. The result will be mutually interesting and profitable.

PROGRESSIVEISM GONE MAD IN WISCONSIN AS SEEN BY MANUFACTURERS.

SUCH surprising claims have been put forth on behalf of Senator La Follette's campaign for the Presidency, in the course of which great emphasis was laid upon alleged advantages accruing to the state of Wisconsin from the Progressive administration there, that extracts from a copy of a letter enclosed to the MANUFACTURERS RECORD by the Wisconsin Manufacturers' Association, and which was written by Secretary George F. Kull of that organization to the Republican National Committee, are of very seasonable interest as to the tax and legislative situation in the Commonwealth.

First, it is pointed out that none of the ruinous tax bills introduced at the last session of the legislature was passed, and that the claim alleged to have been made for the Progressive administration that the state has no public debt is a totally wrong presentation, the fact being that Wisconsin has no state debt because its Constitution provides that the state cannot borrow money except for war purposes; therefore, neither Senator La Follette nor any other individual can take credit for the fact there is not any state debt. On the other hand, counties and cities have increased their bonded indebtedness very rapidly for the last few years.

It is also denied that the state government has been constructive, businesslike and efficient, for it has discouraged the growth of industries in Wisconsin, besides permitting steady increases in cost of government, not only for county and local units, but for the state, and the fact that general property taxes for state purposes have not increased is accounted for by the fact that the state has had large increases in revenue from other sources, including inheritance taxes, taxes paid by railroads and insurance companies, state income taxes and surtaxes.

As to the claim that the Progressive administration made laws that promoted honest business, the letter says:

"There is no claim that business in Wisconsin is any more or less honest than business in other states, and the statement made by Senator La Follette really has no bearing on the case, as 't is too general. It has no meaning when comparing industrial growth in different states."

Concerning the allegation that manufacturing in Wisconsin under Progressive government has increased far more than in New York, New Jersey, Massachusetts, Illinois, Indiana and Minnesota, the letter says:

"Manufacturing in Wisconsin has increased in spite of our laws and not because of them. It is a fact that very few, if any, new industries have located in Wisconsin, except as branch factories. This branch factory organization is very important when considering the Wisconsin situation. Wisconsin has by far the highest state income taxes of any industrial state. The power, however, to levy state income taxes is limited to the income derived from business done in the state of Wisconsin."

It is further asserted that as a result of the heavy state income taxes, factory extensions are being built outside of the state; that Wisconsin corporations are being sold to corporations of other states and their factories remaining in Wisconsin are run as branches; that Wisconsin corporations are being reincorporated in some other state and their general offices are then removed from Wisconsin; that Wisconsin corporations are set up to operate factories within the state to sell their products to general or controlling companies elsewhere at arbitrary prices; that changes of residence of officers and stockholders to some other state have occurred. Any one of these things, it is pointed out, is sure to result in retarding industrial growth in Wisconsin, and they are done because other states are not disposed to put additional burdens upon industry, either through increased income taxes or by other laws affecting factories.

In the case of the Palmolive Company, which removed its general office to Chicago, it had in twelve years developed

from a business of \$1,000,000 to \$23,000,000 a year, and about a year ago it decided to become a Delaware corporation and continue the Wisconsin factory as the Western Operating Company, which sells its product to the general office at arbitrary prices; and, inasmuch as more than 90 per cent of the Palmolive Company's sales are outside of Wisconsin, the company does not have to account to this state for that proportion of its net earnings resulting from that amount of sales, but in 1922, two years ago, its income tax report for the year showed an assessment in Wisconsin on 93½ per cent of its total earnings. Under the new arrangement there is, consequently, a rapid decrease in the percentage of earnings of the company that will be subject to tax in Wisconsin. In the case of the Johns-Manville Company, which moved most of its business from the state several years ago, there was paid last year in Wisconsin a state income tax on only 7½ per cent of the total earnings.

Thus, the state loses a large amount of income taxes on a company's business, also the income tax on individual incomes of officers who change their places of residence to points outside of the state. Furthermore, it loses the right to levy inheritance taxes on estates of such individuals when they die, and it also loses the advantages of the presence, ability and capital of men who would influence further industrial growth in the state. There are mentioned offhand the names of nine men who removed from Wisconsin because of the onerous state income tax, and there are also many others who have gone away.

If this sort of thing is what the Progressive elements, so-called, contemplate extending to the rest of the country, it becomes more than ever the political duty of every patriotic citizen to cast his vote against its candidates, so that our common country may advance in every desirable manner, commercially, industrially and financially, without let or hindrance.

"UNITED STATES CAN BE FORCED TO JOIN THE LEAGUE OF NATIONS," SAYS A GERMAN.

IN a dispatch to the Hearst newspapers their Berlin correspondent quotes Prof. Ludwig Stein as saying:

"The United States can be forced to join the League of Nations. If Germany enters the League and the way is cleared for Russia's entrance, America will then be so isolated and confronted with a world combination that nothing will be left but to join also." The correspondent adds that Professor Stein claims to be on a particularly intimate footing with American Ambassador Houghton and British Ambassador Lord DeAbernon, and to this he adds:

"Answering Tchitcherin's letter through the Berlin Zeitung, Professor Stein in effect argues that America cannot stand off such a world combination as the League.

"Japan's unexpected and exceedingly skillful thrust at Geneva and Professor Stein's arguments in Berlin are just two of the numerous indications confirming my dispatch of September 21 that the League is partly drifting and partly being engineered from behind the European political stage.

"The American people get few real glimpses into the vast combination which can be turned at any time against the United States for the purpose of forcing a cancellation of settlement of Europe's debts on any desired basis or for any other purpose.

"Germany, with its secret note to the League, the substantial contents of which were cabled yesterday, has thrown a monkey-wrench into the machinery for the time being."

No one in this country should have been surprised at all at this movement of European and Oriental diplomacy to bulldoze the United States into the League of Nations, but this country is not in the habit of being bulldozed, and the conspirators who have been engaged in this enterprise may find that they have counted without their host.

HOMESEEKERS' RATES TO THE SOUTH AGAIN.

THE railroads of the South are still determined not to issue homeseekers' rates except on tickets for five, and some of them have taken the ground that this is the rule in other sections of the country. It is true that that rule prevails in some large sections, but it is not correct in its entirety. In the Western Passenger Association territory, homeseekers' rates on one ticket are granted from a large portion of the central West to Wyoming and Wisconsin; to a limited territory in Alberta, Canada; Colorado, Idaho, Manitoba, Michigan, Minnesota, Montana, New Mexico, North Dakota, Oregon, Saskatchewan, South Dakota, Utah and Washington.

Here is an enormous territory which the railroads of that section are doing their utmost to build up, and for that purpose are giving homeseekers' rates on the basis of one fare plus \$2, with dates of sale twice a month, with a limit of twenty-one days, and, as stated, on one ticket only, with stopovers allowed at all points in authorized homeseekers' territory. An aggressive effort is being made by railroads to carry people into the region mentioned, and especially into Dakota, Oregon, Utah and Washington. Enormous amounts are being expended for advertising that territory, and the way in which its charms are presented necessarily appeals to every man who reads these advertisements and the pamphlets issued by these roads.

With all due credit to Southern roads for what they are doing in the way of advertising this section, we regret that it must be said that none of them are carrying on a campaign comparable in extent and importance to the work that is being done by many of the big railway systems of the West and Northwest. Some of their advertisements in the most widely circulated publications of the country are works of art not only in the typographical display, but in the wonderful presentation of the alleged attractions of these Northwest and Pacific Coast states. The advertisements which the Southern Pacific, for instance, is now carrying in daily papers for California travel are unequalled by anything we have seen anywhere in this country for drawing people to the superb resorts of the South, though we believe the attractions of the South far surpass those of California and should be more widely advertised.

It is true that travel to Florida every winter taxes the capacity of existing railroad facilities, and even now Pullman reservations are being made months ahead of time for tourists and winter residents who are planning their winter trip or winter stay in Florida, but these facilities should be increased to such an extent as to supply without difficulty every requirement of the traveling public in getting to and from Florida without having to make engagements months in advance.

It is easily understood that Southern railroads find some difficulty in granting homeseekers' rates for one ticket for fear they will thereby lose through the use of these homeseekers' tickets by excursionists or tourists. We do not think this position is well taken, for it must be possible to devise some way by which the homeseekers' tickets should be sold only to legitimate homeseekers and not to tourists. Every homeseeker is a business asset to the railroads, for every settler in the South becomes a permanent addition to the value of freight and passenger traffic. Indeed, if it were necessary, Southern railroads could afford to lose something in passenger traffic for the purpose of increasing the number of settlers in the South, for the temporary loss would be far more than regained by the later profit.

For many years after the Civil War the passenger departments of the Southern railroads were so eager to secure the beggarly pittance received from the traffic that they encouraged Southern people in every way possible to leave the

South and settle in the West or on the Pacific Coast. They organized on their own volition special excursion trains to induce people to leave their territory and go West. Nearly every passenger station in the South displayed large placards in enthusiastic praise of the West or the Pacific Coast tempting the people to leave their own section. Partly by reason of adverse business conditions following the Civil War, but largely by reason of this campaign carried on by the narrow-visioned passenger agents of that day, 5,000,000 white people left the central South between 1865 and 1910. About 3,500,000 went entirely beyond the borders of the old Confederacy and the balance went into Texas and Missouri and other Southwestern states.

The damage thus done to the South was practically irreparable. That loss of manhood and womanhood was far greater, viewed from the economic standpoint, than the loss by the war itself. Every man induced by this railroad activity to go out of the South permanently lessened the volume of traffic, passenger and freight, to an extent many times greater than the little profit, if any, secured by the low excursion rates offered these people to leave the South. It is incomprehensible to us that the railroad officials of that generation would have been so unappreciative of this fact. Instead of building up the South, they practically did all in their power to destroy it. This section is still suffering and will suffer for many years to come from that loss of population, the greatest drain by emigration on any country of modern times.

Though the railroad officials of today are in no way whatever responsible for the action of those who preceded them, it is not out of place to suggest that they should be as active and broad-minded in seeking to bring people into the South as their predecessors were in seeking to carry people out of the South. If they ever accomplish that task, they will have to go at it on a very much larger scale than anything that has yet been done in bringing about such conditions.

A TEXAS FARMER DISCUSSES TARIFF AND PROTECTION.

B. P. TEMPLETON of Delvalle, a Texas farmer and an old Confederate, now we believe over 80 years of age, in a letter to the Austin (Texas) Statesman says:

"I have read John H. Kirby's comments on the Democratic free-trade platform adopted at Waco.

"Every farmer, tenant, renter, sharecropper and stockman in this state ought to read and think of what Mr. Kirby says and let their memory and experience lead them back a few years to remind them of the facts about free trade. We cannot compete with Egyptian, Hindu, Chinese and African labor in the production of copra, cotton, soybeans, peanuts, sugar and iron, and live.

"Any family in the United States, white, negro or Mexican, would starve in less than three months if their living depended upon wages as low as Egyptian, Hindu and Chinese wages. The Democratic corpse cannot see that free trade in this nation is dead forever. Southern Representatives may vote for free trade in Southern products and impoverish their own section and people, but the Northern and Western products will be protected against foreign-labor products. The Yankees have more sense than to experiment with free trade in any of their products. A protective tariff has made the North and East rich—the money of the country just gravitates in their direction—while we cotton producers of the South have held the balance of trade in the nation's favor by exporting raw cotton to the impoverishment of ourselves.

"Mr. Kirby says a whole lot in a few words, but he does not say half of what ought to be said and does not go far enough. The Democratic party has deserted its principles of state sovereignty and state rights, human and personal liberty, and this last declaration for free trade by the Texas Democracy, if successful, will drag us down to the level of the European, Asiatic and African labor, who work virtually

naked and live on a diet upon which an American would starve to death in thirty days.

"Iron has been delivered in Virginia from India across the Pacific Ocean via Panama Canal to Norfolk, Va., and from thence by rail right to the Virginia furnaces at \$2 a ton cheaper than the Virginia furnaces can make it, with all the materials, such as ore, coal and lime within sight of the furnaces. The low cost of labor in India is the advantage the Indian ironmakers have over the American ironmakers. Americans are mining, smelting and shipping this iron from India to America. I got this from the MANUFACTURERS RECORD, published at Baltimore, Md. This should be enough for any American, especially the Texas progressive Democrats, to know about free trade in anything. Wilsonian deflation and free trade both together came very near breaking us all."

TO STUDY THE RESOURCES OF THE OCEAN.

THE naval scientific expedition to be undertaken by the Government next July, with the Gulf of Mexico as the base of operations, promises to open up some possibilities of exceptional importance to the country in the way of new sources of food supply and in a more accurate knowledge of the ocean's bed, including the presence of oil-bearing strata and the origin, course and climatic effect of the Gulf Stream.

Lieutenant Commander George E. Brandt of the United States Navy tells something of the purpose of this expedition in an article appearing elsewhere in this issue, and outlines certain of its possibilities. Among other important considerations he suggests that the sonic depth finder may lead to the location of oil fields beneath the waters of the Gulf.

With a greater knowledge of the plant and animal life of the ocean, a foundation may be constructed for a much fuller utilization and conservation of the wealth of the sea in fisheries. And the investigation of the ocean currents should result ultimately in a mass of scientific data which will permit of an accuracy in foretelling the occurrence of storms and their courses that will serve to make our present weather forecasts seem quite elementary. It is the confident expectation that results of great economic value will be achieved by the expedition.

The undersea illustrations accompanying the article are especially fine.

WILL YOU FOLLOW THIS GOOD EXAMPLE?

Chamber of Commerce.

Charlotte, N. C., September 22.

Editor Manufacturers Record:

We have your letter of the 18th inst. advising that you are about to give to the public another publication, entitled "The South's Development," purchase price \$1 plus twenty-five cents if sent by mail, making a total of \$1.25.

Please send seventeen copies of this publication to C. O. Kuester, secretary and business manager of the Charlotte Chamber of Commerce.

I wish again to take this opportunity on behalf of myself, as well as representing the Charlotte Chamber of Commerce as its president, to express to you our deep appreciation of what you have done and are doing for the South's development, and preaching the gospel of pure patriotism to its citizenship, and of standing behind the Constitution and the Flag.

Again thanking you for your great efforts in behalf of the South, I am,

T. L. KIRKPATRICK, President.

If every commercial organization in the South would follow this example and give their directors and members a chance to see "The South's Development," their communities would be largely benefited.

But the Charlotte Chamber of Commerce is a very live body. Is yours?

SHOULD BANKERS GUARANTEE SECURITIES THEY SELL?

THE Iron Age, in a recent editorial, takes the ground that the selling of securities by banking houses is merely a piece of merchandising of exactly the same character as that carried on by any merchant selling to a customer.

Based on this, the Iron Age says that as the merchants and manufacturers must guarantee the quality of the product they sell, and be prepared to make it good if there should be any failure to measure up to the standard, so bankers should guarantee the security of every issue they bring out. It takes decided exception to the statement disclaiming responsibility which banks now put at the bottom of all of their advertisements in offering securities for sale, which points out that "the statements contained therein are not guaranteed but are based upon information which they believe to be accurate and reliable."

According to the views of the Iron Age, this is improper and should not be used by any banking house selling securities, as it is the duty of the bank, so that paper says, to investigate thoroughly the correctness of the statements made about these securities, making its own investigation, and then, based on that and the report of their own experts, guarantee the securities issued or refund the money if they prove not good.

This is a rather novel but interesting suggestion. Bankers will unquestionably ignore it or say it is impossible for them to guarantee the securities which they offer. Nevertheless, manufacturers must guarantee the quality of steel rails or other products which they sell. It is true that the bankers of the country have been entirely too careless in handling securities which did not merit the endorsement of their houses.

Investment bankers have for years sought by blue-sky laws to prevent the selling of fake securities to the unsuspecting public by promoters with glib tongues, but many of the most reputable banks in the country have during the last few years sold securities which have proven about as worthless as any of the wildcat oil and mining speculative stocks. While these bankers have not guaranteed the accuracy of the statements made in their advertisements, their solicitors have played up with unceasing activity to prospective customers the attractiveness of the security and the conservative character of their houses. In this way the public has learned, to a considerable extent, to discredit many statements made by banking houses, and often turns from these investments to speculative things because of the bad record made by supposedly conservative banking houses in selling securities which utterly fail to justify the promises made.

The suggestion of the Iron Age may prove something of a bombshell in the camp of banking houses, and though the selling of securities may perchance be a little different from the selling of pig iron and steel rails, there is no reason whatever why any banking house should dare to sell securities until its own experts, for whose statements it is responsible, have thoroughly investigated the properties, whether they be industrial or railroad or financial, and then place in their advertisements the reports made by their experts. While this would not be an absolute guarantee of these securities, it would at least show to the public that a thorough investigation had been made.

It is altogether possible that the time will come when legislation will compel bankers to guarantee the security of the goods which they sell, if they do not undertake voluntarily to do it, just as manufacturers must do in dealing with the public.

THE REAL ORIGIN OF DEFLATION AND ITS DEADLY RESULT.

IN the political discussion of the hour, especially that relating to the destruction of business by the drastic deflation inaugurated in 1919, a speech made by President Wilson to Congress on August 8, 1919, seems to have been generally overlooked. We have so often mentioned the fact that this deflation campaign began vigorously in the summer or fall of 1919, when Mr. Wilson, disturbed by the reports of the high cost of living, promised the Railroad Brotherhoods his best effort to reduce the cost of living, that it has hardly seemed necessary to reiterate that point. But in his address before Congress overstressing, as we think now and as we thought then, the high cost of living, which was the inevitable result of conditions coming out of the war, Mr. Wilson said:

"Wheat shipments and credits to facilitate the purchase of our wheat can and will be limited and controlled in such a way as not to raise but rather to lower the price of flour here. The Government has the power, within certain limits, to regulate that.

"We cannot deny wheat to foreign peoples who are in dire need of it, and we do not wish to do so; but, unfortunately, though the wheat crop is not what we hoped it would be, it is abundant if handled with provident care.

"The price of wheat is lower in the United States than in Europe, and can with proper management be kept so."

This frank statement that credits would be so limited and the price of wheat so controlled as to prevent an increase in the price of flour is perhaps the first open statement made in behalf of using the mighty power of the Government and the Federal Reserve system to restrict credits and thus by arbitrary means control prices.

Referring to high prices prevailing in many commodities, Mr. Wilson said:

"No watchful or energetic effort will be spared to accomplish this necessary result. I trust that there will not be many cases in which prosecution will be necessary. Public action will no doubt cause many who have perhaps unwittingly adopted illegal methods to abandon them promptly and of their own motion. And publicity can accomplish a great deal. The purchaser can often take care of himself if he knows the facts and influences he is dealing with, and purchasers are not disinclined to do anything, either singly or collectively, that may be necessary for their self-protection."

In this statement President Wilson tacitly commended the organization of consumers for the purpose of controlling prices, but a few sentences before he denounced the producers and marketers of various products who sought to control prices. It was all right for the consumers to combine to break prices down, but it was held to be a sin for producers to help to put the prices up.

The entire address, which was fully discussed in this paper at the time, pointing out some of the very dangerous economic policies which Mr. Wilson on that occasion advanced, indicated in every line the determination of the Administration to do all in its power to bring about a reduction of prices. The trouble at the time was that Mr. Wilson, moved by the cry of profiteering which became the fad of the moment, did not seem to realize that this was but an evanescent movement, due to the world's shortage of agricultural and manufactured products, and to the eager scramble of buyers bidding against each other to secure these things. But this speech practically inaugurated the campaign of the Government against prices and the restriction of credit. The Attorney General immediately filled the newspapers with denunciations of alleged profiteers, entering suit here, there and everywhere for the purpose of frightening producers and sellers

and making them believe that they had violated some law which would send them to the penitentiary.

It will be remembered that under date of August 24, 1920, the Federal Reserve Board of Richmond sent to all of its corresponding members a circular-letter about restriction of credits, in the course of which it said:

"We have been undertaking a campaign for the conservation of credit for more than a year."

We remind our readers of these facts because we find that business men and bankers everywhere are more and more beginning to realize that the disastrous conditions of business which followed deflation, and from which we are still suffering, were brought about by the most unwise financial policy which this country, we think, ever adopted.

Using the term "conspiracy" in a rather broad sense, we might say that we believe the action of the Federal Reserve Board, beginning in the fall of 1919 and continued vigorously through 1920, wiping out billions and billions of values and leaving many investors and business concerns badly crippled, some of which have been falling by the wayside ever since, unable to regain losses incurred in 1920 and 1921, was the greatest financial mistake or conspiracy in the world's history. It brought on the greatest commodity panic the world has ever seen. It created greater losses in agriculture, in manufactures and in general business by many times what we had ever seen before. The actual money losses which we incurred in the prosecution of the European War were really small as compared with the losses of this deflation campaign, and it is altogether possible that the actual deaths which occurred as the result of the misery and wretchedness brought on by this campaign exceeded the number of deaths of our soldiers in the war.

TRUTH ABOUT THE PROTECTIVE TARIFF.

JOHAN W. DAVIS, Democratic candidate for President, in a recent speech in Baltimore, said, "I am a Jeffersonian"—yet in the next breath, he as ardently damned the protective tariff.

As a man of Mr. Davis' erudition must know, Thomas Jefferson was one of the original sponsors of a protective tariff for the United States, approving James Madison's measure for the adoption of that policy by the first Congress. Later, it was endorsed without qualification by Andrew Jackson.

Furthermore, these patron saints of the Democratic party—the party which Mr. Davis now leads—specified that the tariff should be "protective" for American industries, and not a "tariff for revenue only," in theory, practice or policy.

No Democrat in the land need hesitate for a moment to vote for a protective tariff on the ground that it "is not a Democratic policy" or in the delusion that free trade is.

A FEW THOUSAND OTHERS ARE HEARTILY WELCOME TO FOLLOW THIS GOOD EXAMPLE.

White Bank

Chester, S. C., September, 27.

Editor *Manufacturers Record*:

So many of your editorials seem to me to "hit the bull's-eye," and I enjoy your publication so much, that I am persuaded that a good friend, who is a Christian gentleman and a most excellent school teacher and a stickler for the right, would get real pleasure in reading your magazine.

Therefore, I am enclosing check for one year's subscription, and shall thank you to kindly send the *MANUFACTURERS RECORD* to Prof. D. L. Rambo, Chester, S. C., accordingly.

T. H. WHITE, President.

How many other business men are inclined to follow the good example and subscribe for some friend, teacher, preacher, or otherwise?

A Boston Attorney's View on the Twentieth Amendment.

BY FELIX RACKEMANN, BOSTON.

Referendum No. 7 on the November ballot seeks the *opinion* of Massachusetts voters as to whether their legislature should ratify or not the proposed United States Constitutional Amendment giving Congress "*power to limit, regulate or prohibit the labor of all persons*" under 18 years of age.

Shall Congress be given the fullest possible power over the labor of all persons under 18?

First—Let us see what the power would be. Miss Brown of the Committee for Ratification says that the statement that it would affect labor on the farms and in the homes is "false and malicious." Nothing is really gained by such language. The facts are that two proposed amendments to exclude farms and homes were offered and defeated. (See Congressional Record, p. 7481.) Why defeated, if there was no intent to include?

"Labor" is generally defined as efforts directed to an end, not mere game or recreation. The courts have so applied it. It has been held that the word "laborer" includes a "dancing girl" and an "actor." The term is broad. "Six days shalt thou labor and do all thy work."

The power to "prohibit" is clearly the power to forbid entirely.

The power to "regulate" is the power to attach all manner of condition as, for example, no labor unless the laborer has a license from some Federal bureau of education. Is it such an idea which leads J. J. Tigert of the bureau of education in the Interior Department at Washington to engage in propaganda for this Amendment? (See Rural Schools News Letter, No. 19, August, 1924.)

As Dr. Pritchett, president of the Carnegie Foundation for advancement of teaching, says:

"An aggressive bureaucrat at the head of a Federal child labor bureau may exercise a dominance over the relations of children to parents or to teachers from which there is no appeal."

Thus, we see that the "power" proposed to be given is all comprehensive. It goes far beyond anything which any state has ever yet even considered, and there are those who deny, even to the state, the power to "prohibit" all persons under 18 from all labor. And yet the limit of 18 years was deliberate and insisted upon. Amendments offered to make the limit 16 (the present highest in any state) were defeated.

It must be clear that the proposed power would be just what the words say. It would be "power," without limit, to "regulate" or "prohibit" any and all forms of work, at home or abroad, by persons under 18, of whom there are some 24,000,000 in the United States.

General Edwards speaks of it as "an amendment fraught with more danger than anything else; creating a new class of public servants to suck our blood on the question of taxes."

Second—Why is such extraordinary and unheard-of power sought? It is said that there is a "child-labor" evil which should be stopped. Of course, all good people abhor the abuse of children in any form and would want it stopped. But let us see more closely. What and where is this evil. It is not in Massachusetts. It is admitted that we have the best child laws in the United States. Forty-six of the 48 states have laws today guarding children from injurious labor. But it is said that there are labor abuses of children in a few of the states and that they should be coerced by a national law.

Well, in the first place, these evils are much exaggerated.

For instance, we hear much of the small children overtaxed in the sugar-beet fields of Michigan, but this story is corrected by a state investigation reported in the Congressional Record, June 2, 1924. It is admitted that the backward states are improving and gradually working toward the Massachusetts standard. Dr. Pritchett says:

"The regulations of child labor by the various states has had a steady, and on the whole satisfactory, development."

Why not let them do it freely and voluntarily, because they come to see it to be right, instead of being coerced beyond their convictions? Why force, if you can persuade?

President Coolidge said on August 10, 1922:

"To dragoon the body when the need is to replenish the soul will end in revolt."

Under our dual system of government each state is sovereign, save as certain express powers, for national purposes, are given by the United States Constitution to the Congress. This system has proved itself for 140 years and departures should be cautiously made.

Third—It is said that though the power is very broad in terms, Congress would never expect to exercise it to the limit, but can be trusted to exercise it reasonably. Why should we deliberately vote to give Congress a power which they will never expect to exercise and which we should not wish them to exercise? If amendment is to be, why not make it in form intended, on the one side, to be given, and intended on the other side to be exercised?

Why give Congress power far beyond that which it twice attempted to exercise in the laws heretofore enacted, both of which the Supreme Court annulled?

Fourth—It is said that Congress has heretofore assumed that it had power to deal with "child labor." This again is incorrect. Congress knew that it had no such direct power. It had power to deal with the matter of interstate commerce, and first enacted, in substance, against the shipment in interstate commerce of the products of child labor. This being annulled, Congress then resorted to its taxing power and enacted that employers of children should be very heavily taxed. This the court annulled on the ground that it was obviously not a true tax measure, but merely an attempt by Congress to do indirectly what it could not do directly.

Fifth—It is said that the states having good child laws (like Massachusetts) suffer severe commercial handicap in competition with states permitting child labor. As president of a Massachusetts cotton mill I have no hesitation in saying that if all children were taken tomorrow out of every Southern mill the effect in Massachusetts would be inappreciable. The item is too small for calculation. The handicap exists, but the items are, chiefly, wages, hours of labor and taxes.

Sixth—It is said that President Coolidge has favored this amendment. I think not. What he did say in his speech of acceptance was that we should have a law "which will protect childhood" and prevent anyone living "off the earnings of its youth of tender years." That is what we have in most of the states today and all good citizens will agree with the President. But, I do not believe that President Coolidge thinks, or ever said, that a husky boy of 17 to 18 years was a "youth of tender years" who must not be allowed to do any work, perhaps for himself, perhaps for his widowed mother, or perhaps just because it was good for him!

Seventh—Let us consider how this amendment comes to be

proposed. The Congressional Record of May 31, 1924, tells the whole story. The opponents of the measure were denied a hearing by the committee.

The leading and directing spirit was Mrs. Florence Kelley (formerly Wischniewsky), one-time president of the "Inter-collegiate Socialist League" and on the faculty of the so called "Rand School of Socialism." She led the campaign for the so-called "Children's Bureau," which is seeking, among other things, the compulsory Federal registration of every prospective mother. (See Children's Bureau, No. 6, p. 146.) Incidentally, this bureau, which started in 1900 with an appropriation of \$25,640, in 1923 directed an expenditure of \$1,551,040 paid in by the taxpayers. What would they spend if this Amendment be adopted? The support of the bill was largely from Mrs. Kelley's sympathizers. They believe in the so-called "nationalization of our children." I believe that God gave the children to their parents, and that parents should be very slow to give them to any other power on earth.

Finally, let me first call attention to the position of the Farmers' States' Rights League, expressed as follows:

"The farmers of the United States of America want no powers granted to Congress that will give Government employees the right to invade the sanctity of the farm homes or the sanctity of any other homes, and tell the parents how they shall control, direct and guide their children. It is a fraud and deceit to call this a child labor amendment."

And to the following quotation from the "New England Homestead":

"It may be said that Congress will never go to the extreme of prohibiting persons under 18 from working. All the more reason then for not granting such authority to Congress."

And, finally, to the words of President Pritchett, as follows:

"The amendment confers upon the Congress a power far beyond the mere regulation of child labor * * * .

"No such sweeping invasion of personal and local civil rights has ever before been proposed in this country * * * .

"There is no crying need for the central government to take the question out of the hands of the states and settle it by regulation from Washington * * * .

"It is wiser to follow the old and sure position of education of public opinion in the separate states and communities than for the Federal Government to undertake to coerce * * * .

"This legislation goes beyond any other measure yet enacted in breaking down the principles upon which our Government rests * * * .

"If history is to be trusted, this bill points straight to socialism * * * .

"The so-called child labor amendment is not a child labor measure. It is a sweeping enactment, well meant but unwise, whose ultimate effects will be to subvert free government and promote socialism. This legislation entails too great a risk to our liberties."

Perhaps in the foregoing I have shown some reasons for voting "No" on this proposition.

New Sugar Refinery Running at Capacity—Company Planning for Export Trade.

Texas City, Texas, October 11—[Special.]—The new refinery here of the Texas Sugar Refining Co. which began operations about four months ago, is running to its full capacity of more than 1,000,000 pounds of sugar per day. It is stated that the company has large stocks of raw sugar on hand and that there is demand for the refined product equal to the plant's output.

The company, it is said, has made formal application to the Treasury Department for a drawback rating of the Texas City plant in order that it may be prepared to enter the export sugar markets. Negotiations are also being made for the shipment of refined sugar to Porto Rico, and if these materialize the product will move out of Galveston.

A BIG TOWNSITE AND FARM DEVELOPMENT PLAN IN FLORIDA OF SEABOARD AIR LINE RAILWAY.

165,000 Acres to Be Utilized.

Detailed plans for the proposed farm and townsite development of 160,000 acres of land in Palm Beach and Okeechobee counties, Florida, recently purchased by the Florida Land & Development Co., and of 5000 acres near Sebring, Fla., purchased by the Southwestern Investment Co., have not yet been formulated, according to advices from Clement S. Ucker, director of development of the Seaboard Air Line Railway Co., Savannah, Ga. Discussing the proposition, Mr. Ucker says: "I am concerned with the marketing of the standing timber—some 220,000,000 feet—on the property, and getting milling operations started as nearly coincident with the opening of the road in January as possible; after that I am concerning myself with the letting out of plans for laying some townsites. After that I shall endeavor to work out some rather definite and detailed plans."

About 100,000 acres of the lands lie on either side of the recently completed St. Louis drainage canal, and extend east and west along the canal from the point at which the line of the Florida, Western & Northern Railroad, now under construction, crosses the canal. The Seaboard Air Line, which is the lessee of the new railroad and is back of the work of the Florida Land & Development Co., will give substantial aid in the development of the lands.

\$800,000 Garage Storage Building for Atlanta.

Atlanta, Ga.—Work has begun on razing buildings on the Ivy street site here, where Bolling Jones and associates plan to erect a garage storage building to cost more than \$800,000. Plans for the structure have been prepared by Lockwood, Greene & Co., engineers, of Boston and Atlanta, and contract for piling has been awarded to the Raymond Concrete Pile Co. of New York.

The building will be six stories, 150x200 feet, of reinforced concrete and face brick, with terra cotta trim, and will contain approximately 175,000 square feet of floor space. It will be equipped with automatic sprinklers, steam heating plant and elevators. The first floor will be arranged for stores, offices, garage, waiting-room and chauffeurs' room. Access to the upper floors will be by means of ramps, one series of which will be used for ascent and another for descent. The use of staggered floors, it is said, will provide different floor levels every six feet and will enable the building to take care of 1000 cars.

G. L. Miller & Co. of Atlanta are arranging financial details.

\$750,000 Purchase of Utilities in Missouri and Kansas.

Deerfield, Mo., October 11—[Special.]—The Fort Scott-Nevada Light, Heat, Water & Power Co. has been purchased by the West Missouri Power Co., Pleasant Hill, Mo., according to an announcement by L. K. Green, president of the purchasing company. The transaction involves more than \$750,000 and includes light, water and gas plants at Nevada, as well as the gas-distributing system at Deerfield, Moran, Kans., and Bronson, Kans. The West Missouri Company also acquired 350 acres of coal land near Clinton, together with the Clinton plant, which supplies power and light to 60 towns in western Missouri.

A high-pressure gas main, 53 miles long, extending from the gas fields near Fort Scott, Kansas, to Nevada, also was transferred to the West Missouri Power Co. Nevada will receive power and light from the central power station at Clinton and a power plant at Nevada. The latter will be used chiefly in emergencies and as a reserve plant.

Shall We Hamstring the Supreme Court?

A SUGGESTION FOR RECONSTRUCTION.

BY RICHARD WOODS EDMONDS, NEW YORK.

Number 3.

[This is the third of a series of three papers by Mr. Edmonds on the efforts being made to emasculate the Supreme Court. The first dealt with Senator Borah's suggestion. The second considered Senator La Follette's proposal. In this one Mr. Edmonds discusses a plan which, if it does not present a solution of the problem, he thinks may at least open the way to a more constructive solution than either of those already discussed.—Editor MANUFACTURERS RECORD.]

It is a fact often remarked upon that when men approach political issues they seem to dispossess their intellectual faculties and set up their passions and prejudices as sole guide.

Anyone who will take the trouble to analyze the objections being urged against the Supreme Court will find that, in the main, they spring from one cause,—the invalidation of some favorite piece, or pieces, of legislation. The Court is thus made to appear the enemy of progress. It is a matter of record that the same people who have damned the Court for invalidating certain legislation have on other occasions damned it with equal vehemence for upholding legislation that to them seemed undesirable.

Nevertheless, it is true that many sincere and thoughtful men are dissatisfied with the present order of judicial review, and their dissatisfaction is not to be dismissed as mere prejudice or selfishness. An analysis of the present method of judicial review will reveal real grounds for complaint.

Progressive forces exert themselves to put through certain legislation, which, to save space, we will assume to be desirable. It goes into force. The nation's industries are adjusted to it, probably at considerable expense. Litigation arises under it, the case finds its way into the Supreme Court, and two or three years after its enactment the legislation is pronounced by the Court to be in contravention of the Constitution. Industry is somewhat disorganized in making the readjustment. The Congress is held up to the country's contempt. The progressive forces are discouraged. Progress is delayed while they rally for another campaign, this time, perhaps, for an amendment. Here, certainly, is ground for complaint, but hardly for all the complaints it gives rise to.

Men declare the Court is usurping power it was never intended to have, although this charge was long ago completely refuted. They say the Court is daily growing more reactionary, and is reading into the Constitution meanings the founders never intended it to have. Some few of them even go so far as to say that the Court, by its decisions, is actually amending the Constitution away from the direction taken by the Congress and the people, and that Congress, as the proper guardian of the Constitution, must be given the power to set aside the Court's interpretation by its own. A contention so transparently false would hardly seem to justify notice, yet it finds adherents.

To say that the Court is growing more reactionary because it conflicts more frequently with the acts of Congress is to ignore the perfectly patent and undisputed fact that Congress has been rapidly growing more radical, and that it would, therefore, tend more frequently to violate the Constitution, which does not alter its complexion with prevailing fads. Consistent interpretations of the Constitution will, therefore, of necessity find Congressional enactments invalid with increasing frequency.

To make Congress the final interpreter of the laws as well as the maker of the laws would be the most radical departure from our system of government ever attempted. If we had faith that a legislative body, subject to the will of the people and notoriously addicted to gusts of passion and prejudice, could render as calm and disinterested an interpretation

as can the Supreme Court on questions bound up with votes, even then could we reasonably expect it to sit in impartial judgment on its own acts?

The advocates of the proposed restrictions seem to reason much in this fashion:

"Here was a progressive piece of legislation, enacted by the Congress because the people wanted it. It went into effect. Some selfish individual, claiming a violation of his rights, brought suit, and the Supreme Court declared the act unconstitutional. All the good work of the Congress is undone, the will of the people defied, by a few judges. This thing has occurred before; it will occur again unless we take steps to stop it. Therefore, let us limit the power of the Court by giving larger power to Congress."

A perfectly simple and direct solution of the difficulty; childishly simple, in fact; remarkably like the course adopted by the little boy who stole the fisherman's dory and set sail for Europe. Finding, after awhile, that his dory had shipped some water, he pulled out the plug in the bottom of the boat to let the water drain out.

When we find that "the will of the people" seems to be balked when the Supreme Court declares the acts of the peoples' legislators to be unconstitutional, are we thoughtlessly to destroy the only safeguard our Constitution possesses against complete annihilation?

The Court does not say that Congress, or the people, may not arrive at their desired progressive goal. It merely says that the means adopted to that end are illegal because they constitute a conflict with the highest law of the land. In other words, some other means should have been adopted in the first place. Of course, the other means available is an amendment. The real difficulty, therefore, seems to be in the uncertainty of the validity of some of the acts of Congress, the delays and the dislocations of industry, the disrespect for law endangered and the blocking of progress. If it could have been foreseen that the legislation would have been pronounced unconstitutional, it would never have been enacted. Instead, an amendment would have been attempted in the first place. The Court has no means whatever of balking the people in the accomplishment of their desire. It can only interpret the laws, and say that in certain cases the means adopted were not the proper ones.

Does it not seem, therefore, that a sensible and reasonable solution of the difficulty might be reached without destroying the safeguard of our Constitution and letting in a flood of evils worse than those sought to be cured? Why not permit Congress to call in the Supreme Court to interpret proposed laws and pass upon their constitutionality before they are submitted to the President for his signature? Or, why not require the Court to pass upon the constitutionality of questionable acts as soon as they have received the President's signature? And, in the latter case, suspend the operation of the act until its constitutionality had been determined?

Either of these proposals would, of course, require a constitutional amendment. Numerous objections will be brought against either, just as numerous objections will be brought against any proposal that could be made.

It will doubtless be argued that the function of the Court

is to interpret the laws, not to make them; but a little dispassionate thought will convince anyone capable of dispassionate thought that a court may interpret the law in its embryonic form before it receives the President's signature as well as after the official signature has been affixed. All the meaning of the law is there.

It will, of course, be objected that the application of the law can be determined only by application, and that, therefore, the time to interpret a law is when it is in operation and both sides of the question are brought out in litigation. This contention is undeniably true. On the other hand, it is doubtful that in interpreting beforehand the judiciary would run any greater risk of error than the legislature constantly runs in enacting before application. It is conceivable that, were either of these suggestions adopted, the time might come when it would seem as absurd to attempt to enact legislation that had not received the judicial interpretation as to constitutionality as it now would seem to require that an act be put into operation and thoroughly tried out before the President could affix his signature and thereby make it law.

We may some day look back with a smile of superior wisdom upon our present practice of enacting laws of questionable constitutionality and wonder how we could ever have been so stupid. The question here appears to be, if the conflict with the Constitution is so slight as to be imperceptible before being put into operation, would it be great enough for its enforcement to endanger the security and authority of the Constitution, or to cause serious conflict between Constitution and statutes? Would not the Court, acting in this advisory capacity, be more ready to rule against a proposed law than it is now to overturn one that has already gone into operation? Would not this consideration fully balance any danger to the Constitution that might result from a failure to foresee a conflict with the Constitution?

It would undoubtedly be charged that to give the Court such an opening into the legislative field would be to give it power to widen that opening and invade the field of Congress with ever-increasing assumption of power. Especially would the proposal, to permit the Court to pass upon constitutionality before the proposed act had been submitted to the President, be received with a storm of protest from many Congressmen. Yet it would seem to a disinterested third party that for the Congress to call the Supreme Court into consultation on the constitutionality of its proposed acts would be a more independent, more dignified and more sensible proceeding than for Congress to pass acts only to have the Court overturn them. The Court would still be limited to the interpretation of the laws, and an act once completed and signed by the President would at once have full force, due to the assurance that the Court would uphold it.

To my mind the overmastering consideration in this question is the argument that the sole function of the Court—its whole excuse for existing at all—is to serve the ends of good government, and therefore of society and industry, in the most effective manner possible compatible with the nature of a court; and the nature of a court is the product of custom and usage rather than an immutable natural character that may be discovered but not altered or developed. Therefore, while the interpretation of proposed laws may be somewhat foreign to the present nature of the courts, yet it would seem that if the good of society would be served by such a course, the alteration might well be made.

257 Flax Hill Road,

South Norwalk, Conn.

The Charleston Dry Dock & Machine Co., Charleston, S. C., has been awarded contract at \$130,765 to build a stern-wheel towboat for the United States Engineering Department at Montgomery, Ala., the boat to be of steel, 134 feet long.

International Cotton Statistics.

Manchester, Eng., September 29—[Special.]—The quarterly Bulletin of the International Cotton Federation contains statistics relating to consumption and mill stocks throughout the world, showing that the world has used 469,000 bales less of American cotton during the six months ended July 31 last than in the previous half-year. For the cotton season of 1924 only 10,955,000 bales of American cotton were used.

It is of interest to mention in this connection that Colonel Hester, the New Orleans authority, estimated consumption of American cotton for the season at 11,241,000 bales. During the 1923 season the amount used was 12,666,000 bales. Indian cotton consumption has declined, but Egyptian and sundries have increased slightly.

The total world's consumption of all kinds of cotton was 9,819,000 bales for the six months ended July, as against 10,415,000 bales for the previous half year. The countries showing increases in consumption are Russia, Italy, Czechoslovakia, Spain, Austria, Poland and China. Of the other countries, the United States shows the greatest reduction, 526,000 bales. India has a reduction of 215,000 bales.

Tables relating to cotton-mill stocks show considerable reductions in all cottons, with the exception of Indian. Stocks of American cotton held at the mills on July 31 were 1,043,000 bales less than on February 1, 1924, and 667,000 bales less than August, 1923. The total world mill stocks on July 31 were 3,545,000 bales, as against 4,088,000 bales on February 1, 1924, and 3,932,000 bales on August 1, 1923.

The number of spindles under construction in Europe is only 274,000, but India alone is adding 191,000 and Japan 183,000. China has decreased her spindleage from 3,380,000 to 3,300,000.

The short time-table reveals that several countries have worked less short time during the last six months than in the previous half year. Among these countries are Czechoslovakia, Belgium, Switzerland, Spain, Japan and China. Great Britain increased the short-time run by just over half a week. Spain, Holland (owing to the lockout), Poland, Finland, Denmark and Norway also show an increase on short-time working. No figures are available for the United States, but it is pointed out that of the 37,786,000 spindles only 28,710,359 were active during July.

The Egyptian crop of 1923-24 was 6,417,083 cantars, against 6,683,809 cantars in the previous year. A feature during the past 12 months has been the increase in the yield in cantars per feddan from 3.71 to 4.04. Shipments to Great Britain during the last season were 445,255 bales, against 417,663 bales in the previous year. The takings of the United States show a distinct decline, from 209,224 bales to 108,726 bales. Germany increased its imports from 38,236 bales to 45,332 bales. Exports from Alexandria to all countries were 932,997 bales, against 963,167 bales in the previous season. These figures show that about half the amount exported goes to Great Britain.

During the last few days less favorable advices have been received relating to the prospects for the new crop, and, whereas a little time ago there was an expectation of a production of nearly 8,000,000 cantars, it is now stated that the yield will be less than 7,000,000 cantars.

Second Track Will Soon Be in Use.

The Florida East Coast Railway is pushing its double tracking of the main line so that much of the second track will be in use for this winter's tourist travel, according to a press report quoting H. N. Rodenbaugh, general manager. Construction is also being actively prosecuted on the new line from Okeechobee toward Miami, and a belt line around Miami is under way, the first section from Lemon City to Hialeah being in the hands of contractors. Plans for all of this work were described some time ago.

The South Makes Impressive Showing at National Dairy Exposition.

SOUTHERN EXHIBITS AT MILWAUKEE DAIRY EXPOSITION CREATE DEEP INTEREST AMONG FARMERS OF LEADING WESTERN DAIRYING STATES.

By CRADDOCK GOINS, Milwaukee.

The South took its case before the high court of farm prosperity when the National Dairy Exposition was held in Milwaukee, September 27 to October 4, and showed American dairymen that the one-crop curse rapidly is becoming a thing of the past in the Southern states. Farmers of the middle West who have long regarded the South as a section suited only to the growing of cotton and farm notes passed by Southern exhibits in open-eyed amazement. The National Dairy Exposition is this industry's annual trade classic. Approximately 100,000 persons attended, this year.

The Georgia association presented an exhibit of grain, fruit and feed crops produced in that state, showing the middle Western farmers some of the best oats, corn, apples and livestock feed they had ever seen, to say nothing of such typically Southern products as pecans, peanuts, tobacco, soy beans, yellow yam potatoes and lespedeza. A particular feature was Kudzu hay, a newly discovered wild-growing hay in the South that has proved to be excellent cattle feed.

Even a more elaborate exhibit was provided by the Southern Maryland Immigration Commission. This was in charge of E. A. McRae, executive secretary of the commission, College Park.

Summing up the highly effective work carried on through these exhibits, one is impressed by the fact the Southerners told the South's story of dairying opportunities more convincingly than ever it has succeeded at home. The exposition, from a Southern viewpoint, brings out one of the little ironies of life difficult to understand. This is better expressed in the words of C. H. Bishop of the Georgia association, secretary of the Georgia Creamerymen's organization, who said:

"In all our efforts to arouse the people of our state to their opportunities for dairy prosperity, I never have found such understanding and response as I have in talking to Northern farmers at this exposition. They seem to grasp our favorable advantages in Georgia far better than do our own people. I suppose it is because these men of the North know what dairying means and can understand how greatly profitable it can be made in a land where the climate and economic conditions make it possible to keep good cows so cheaply and so conveniently and with the advantages of a market unlimited. The Southern farmer is turning to the dairy cow, but if he could see the attitude of Northern farmers toward dairying in our section, after having heard it explained at the dairy exposition, the Southern farmer would completely do away with all misgivings and go into dairying with an earnest heart before these men of the North enter his section and show the cotton grower how he has been passing up so many wonderful opportunities."

The South's strong representation at the dairy exposition was the outstanding feature. Men who have been reading of how the Southern states are breaking away from the one-crop system were much interested. Others, who never had any thought of the South except in connection with cotton and tobacco, made no attempt to disguise their amazement. This point is well brought out in an exclamation by a Minnesota dairyman in passing the Georgia booth. "Look what fine alfalfa!" he cried to a companion. He was looking at a bundle of lespedeza. It was explained to him that this lespedeza, which grows in the South almost without effort on the part of farmers, does virtually the same thing for the dairy cow as alfalfa, which has to be carefully cultivated in the North.

The delegates were especially impressed when Mr. Bishop

explained that in Georgia it is possible for farmers to make the dairy cows work for the farmers, whereas in the North the farmers have to work for the dairy cows. In the Georgia booth were exhibited pictures of land on which forage food in the greatest abundance was grown. Cows were shown eating away that part of the feed suitable for them. Another picture showed the forage fields after the cows had eaten the hay, and this time the hogs were burrowing into the stubble for the peanuts and other forage to their liking, which had been left by the cows. Some of the delegates were frankly incredulous when told that Southern cows had been developed to championship production-records on forage feed, spending ten months of the year under no shelter except trees, and never tasting alfalfa.

"Our big problem," declared G. W. Firor in charge of the Georgia exhibit, "is to make the farmers of the South understand how particularly blessed they are in keeping cows much more profitably than they can be kept elsewhere. After more Northern farmers enter the South and show our farmers just how ridiculously easy it is for us to grow our own feedstuff instead of ordering it from distant places, then, indeed, will the South be fully on the road to dairy wealth and farm stability."

"This means to the farmers of the South not just millions of dollars, but hundreds of millions. Just a simple story of the ease with which cow feed can be provided in the South has made our visitors at the dairy exposition regard the South as being a veritable dairying paradise. The actual advantages in our section are so extraordinary that we have had to emphasize nothing; we have just told a simple, matter-of-fact story, and that story struck our visitors as being a tale of a mythical dairy fairyland until they were shown the actual samples of crops we produce."

"The Southern farmer is not going into dairying because he wants to, but because he is being forced into it by certain farm conditions. Later on he will find himself forced into it more largely by the Northern farmers who settle in our section and set a good example. Men who have made good money from dairying in the cold North on high-priced land and with feed produced at high cost will find themselves facing the most beautiful kind of an agricultural condition when they take their dairying and diversification plan to the South."

More than anything else, the South's angle of the exposition brought out the good that can be done through greater co-operation. It is due to co-operation that the Southern exhibits were so highly successful. Forces that for several years have been working in different directions in the interest of dairying in Georgia were assembled around the Georgia exhibit and assisted in every way possible the effort of the Georgia association to drive home its story. With such co-operation more highly developed, the Southern States will find their dairying program going forward as rapidly as is happening in Iowa, Nebraska, California, Idaho and other states of the North that have turned to dairying comparatively recently. In these states, the railroad men, the educators, bankers and farm leaders work as one group, concentrating wholly upon one single thing—the building up of farm prosperity through the dairy cow. They know that the success of the dairying program means success in raising hogs,

sheep and chickens, and ultimate agricultural success. They are building their agricultural tower, as it were, upon the dairy cow as the solid base.

The Southern organizations promoting dairying will find themselves making very great headway when they bring into their fold the railroad officials and educators who are working in other directions on the same idea. This was forcefully impressed when the different dairy forces of Georgia stood together at the National Dairy Exposition and obtained results. And they were results that not even the Southerners themselves fully appreciate yet. It will be a long time before these men who left the South to visit Dairyland will know just how much good they accomplished. Farmers of many states will have gone to their homes and in the months and the years to come will tell other farmers of a land where long, green things grow on farms that can be bought as cheaply as \$40 an acre.

In the Georgia booth was a picture that told a story that particularly appealed to many. It was a picture of pecan trees growing on land bought at \$40 an acre. Under the trees could be seen the remarkable lespedeza growing, with cattle feeding upon it. It was explained that the pecan trees made this land especially suited to luxuriant growth of the lespedeza and afforded shades for the cows, and that the grazing of the cattle under the trees, in turn, made the land more productive for the pecans. And this land with the pecan trees thriving so well could not be bought now at \$1000 an acre.

"I have never heard of a place," said one Wisconsin dairy farmer, with hands full of literature on the South, "where the dairy cow seems to fit into so many different schemes for making money. We have been pretty well satisfied up here just with the dairy cow, the money she brings in and the cheap fertilizer she affords us. But in the South you not only make the cow work for herself, but also make her useful in almost every angle of farming."

Maryland was depicted in the splendid booth presented by Mr. McRae and his organization, who have done more to tell the South's story than any other agencies. He has exhibited Maryland in virtually every Northern state and in Canada, visiting all the fairs of any importance that he has found possible to attend. Mr. McRae has an idea worthy of the earnest consideration of every man mindful of the South's opportunities in the direction of diversification through attracting dairy settlers—that idea is to exhibit the South on a large co-operative plan.

"In different places where I have told the South's story," Mr. McRae said at the dairy exposition, "I have seen an occasional exhibit staged by South Carolina, Alabama, Florida or some other state. I have always wished that we fellows of the South could get together and work out our programs in co-operation."

Mr. McRae's idea suggests the benefits possible for the South through a definite organization representing the Southern states in connection with outside work of this nature. He brought out how much good effect would result from a long and impressive string of booths with a long banner reading, in large letters, "The Land of Dairy Destiny—The Sunny South," and under these words to appear the names of the different Southern states, each state being named over that state's particular booth. In this way the different states still could work independently and at the same time have the prestige that comes of suggesting a large and impressive undertaking.

Of particular interest in connection with the dairy exposition is the fact that a Southern city stands an excellent chance of being selected for the 1925 National Dairy Exposition. The showing of the Southerners in Dairyland this year has given additional weight to the efforts of Kentucky

people to make Louisville the scene of the exposition next year. The Kentucky Dairy Products Manufacturers are expected to make an earnest effort to secure this plum for the South. Every man interested in the South's dairying development will do well to support the movement. It would be difficult to estimate the great impetus this would give to Southern dairying. Not only would it draw dairy farmers from all over America to see the splendid dairying advantages in the Blue Grass belt, but it would bring out Southern dairymen themselves in large numbers and inspire them to a fuller meaning of dairy farming. In hundreds of ways it would benefit the South. The 1924 exposition was called "the dairy industry's five-million-dollar show." It would be just as great an exposition in Louisville.

Virtually, every state in the South was represented at the exposition. J. A. Arey, who has done so much for North Carolina's dairying progress, was on hand with a large party from that state. Tennessee was well represented, as also were Alabama, Arkansas, Texas, Oklahoma, Virginia, Maryland, Missouri and West Virginia. Former Governor H. L. Whitfield of Mississippi and A. L. Mordt of the Northeastern Mississippi Co-operative Farmers' Association headed a large party of Mississippians to the exposition. This party traveled on through dairying centers of Wisconsin and told of Mississippi's splendid plan to create a great market for Wisconsin cattle in the Southern states through establishing demonstration sales farms in Mississippi. The party had the support of Edward Nordman of the Wisconsin Markets Bureau, who recently toured the black belt of Mississippi and reported in Wisconsin that nowhere in the country had he seen better farm land than that to be bought in Mississippi as cheaply as \$30, \$40 and \$50 an acre. Also, he paid a tribute to the good work being carried on for the state's dairying developed by the Mississippi Agricultural and Mechanical College.

"In simple service to its state, that institution is doing some of the best work I have ever seen," he declared. "No frills—just honest, conscientious and constructive service. It is no wonder that Mississippi is so rapidly developing in dairying."

In the Georgia association's booth were men who have done much for dairying in that state—Roland Turner, general agricultural agent of the Southern Railway; H. C. Bates, livestock agent of the same system; George C. Steele of Ashburn, Ga.; John Rigdon, Columbus Creamery, Columbus, Ga.; R. O. Lawhon, livestock development agent, Southern Railway; G. E. McWhorter, agricultural agent, Central of Georgia Railway; Robert L. Biggs, livestock agent, Southern Railway; L. E. Sheffer, L. M. Marlatt and F. W. Fitch of the Georgia State Agricultural College, and others.

Flood Control and Power Project May Cost \$4,000,000—To Reclaim 100,000 Acres.

Consideration is being given by landowners and others in Poplar Bluff, Mo., and vicinity for a flood control and hydro-electric project on the Black River. W. H. Meredith of Poplar Bluff, who is said to represent farmers' interests, wires as follows: "Parties interested here in proposed construction of dam on Black River near Piedmont, Mo., 130 ft. high, for combined flood-control and hydro-electric development. One hundred thousand acres rich bottom lands near Poplar Bluff will be reclaimed from annual floods, and engineers report possible 10,000-horsepower development by one dam.

It will make lake of about 14,000 acres above dam. Application for preliminary permit has been forwarded Federal Power Commission. Robert Isham Randolph, Chicago, consulting engineer. Cost of project about \$3,000,000 to \$4,000,000."

ORDER NOW

BY REASON of its size and expense we shall probably not undertake to issue a second edition of *THE SOUTH'S DEVELOPMENT*, and, therefore, cannot guarantee filling any orders not received prior to publication. It is for this reason that we are asking those who have faith in our promises, based on the work of this paper during the last 42 years, to put in an order at present for any number of copies which they may desire, whether it be one or one thousand. Each copy of the book will weigh about four pounds.

We are justified in saying that the articles already in hand will make that publication invaluable to everyone who seeks to know about the South—past, present and future. The information which will be given by distinguished men in public and business life will carry weight throughout the world. Every bank and business concern of every kind in the South which has correspondents in other sections would be doing a service to their correspondents, and to themselves, and to the South by sending copies of *THE SOUTH'S DEVELOPMENT* to them. The very impressiveness of the information given and of the intensely interesting advertising pages representing many of the foremost business interests of the country will in itself impress every man who receives a copy with the vigor and virility and the possibilities of the South which justify such a publication.

In order to secure the widest possible circulation for the good of the South the price of *THE SOUTH'S DEVELOPMENT* has been put at \$1.00 (postage 25 cents extra) or \$1.25 when sent by mail. For larger subscriptions prices will be as follows:

Less than 100.....	\$1.00 per copy
100 to 250.....	.75 “ “
250 or more.....	.50 “ “

It will be impossible for anyone who receives *THE SOUTH'S DEVELOPMENT* to give even a cursory study of it, or even a glance at it, without being tremendously impressed with what the South has, what it is doing, and what its future will be. The enthusiasm of Southern people for their section will be quickened; the interest of people of other sections in the future of the South as a place for investment and for home making will be intensified.

We invite the co-operation of every reader of the *MANUFACTURERS RECORD* in helping to broaden the circulation of *THE SOUTH'S DEVELOPMENT* by ordering additional copies now. One copy will be given to every subscriber to the *MANUFACTURERS RECORD*; but many of our subscribers are ordering additional copies and all who have not done so are invited to do so.

In order to avoid almost endless bookkeeping all orders for less than five copies should be accompanied by check or money order.

You can fill in the following, tear it from this sheet and mail it as your order:

Manufacturers Record Publishing Co.,

Baltimore, Md.

You are hereby authorized to enter our order for copies of *THE SOUTH'S DEVELOPMENT*, a special publication to be issued by the *MANUFACTURERS RECORD*, for which we agree to pay per copy, plus 25 cents per copy for carrying charges.

Rates—Less than 100.....	\$1.00 per copy
100 to 250.....	.75 “ “
250 or more.....	.50 “ “

Name.....

Date City State

Note—If less than 5 copies, send check.

Many Noted Men Are Writing Great Stories on The South

Among the special contributors of important articles, many of them simply invaluable, to appear in

THE SOUTH'S DEVELOPMENT:

A Glimpse of the Past
The Facts of the Present
A Forecast of the Future

are the following:

HON. D. R. CRISSINGER, Governor of the Federal Reserve Board, Washington: *"Fifty Years of Southern Banking Development."*

HON. HENRY C. WALLACE, Secretary of Agriculture: *"Agriculture in the South."*

HON. HERBERT HOOVER, Secretary of the Department of Commerce (probably): *"The Commercial Development of the South During Fifty Years."*

ADMIRAL LEIGH C. PALMER, president of the United States Fleet Corporation: *"The Opportunities for Development of Foreign Trade Through South Atlantic and Gulf Ports."*

DR. ANDREW M. SOULE, president of the Georgia State College of Agriculture: *"Crop Diversification Usurps King Cotton's Place in Dixie."*

DR. E. F. BURCHARD, expert of the United States Geological Survey on Iron Ores: *"The Extent and Location of the Iron Ore Deposits of the South."*

DR. W. T. THOM, JR., expert of the United States Geological Survey on Coal: *"The Resources of the South in Coal and the Development of the Coal-Mining Interests."*

MR. THOMAS W. MARTIN, president of the Alabama Power Company: *"A Complete Survey of the Hydro-Electric Development and Potentialities of the Sixteen Southern States."*

MR. B. E. V. LUTY of Pittsburgh, a well-known writer on iron and steel interests: *"The Progress of the Iron and Steel Industry of the South."*

MR. TERRY MITCHELL of Waynesboro, Pa., a refrigerating engineer: *"Refrigeration—One of the Ten Largest Industries of the Country."*

MR. C. A. WHITTLE, editor Southern Soil Improvement Committee, Atlanta: *"Story of the Origin and Development of the Fertilizer Industry."* *"Vegetable Oil Industry of the South—Cottonseed, Peanut and Soy Bean."*

MR. REGINALD DYKERS, vice-president of the American Sugar Cane League, New Orleans, La.: *"History of the Cane Sugar Interests and Possibilities of the South."*

MR. C. L. FRANKLIN, editor of "Tobacco": *"Tobacco; Oldest and Most American of Our Industries."*

MR. CRADDOCK GOINS, editor of two leading dairy papers of Milwaukee: *"Dairying as a Factor in the South's Development."*

MR. O. P. AUSTIN, statistician National City Bank, New York: *"Fifty Years of National Progress in Agriculture, Industry and Finance."*

MR. H. E. HARMAN, editor of Southern Architect and Building News, Atlanta: *"Southern Historic Homes—The Birthplace of American Government."*

MR. E. J. WILLIAMSON, associate editor of Hotel Gazette, New York: *"Amazing Hotel Building Progress in the South."*

MR. WADE H. HARRIS, editor the Charlotte (N. C.) Observer: *"The Cotton-Mill Employes of the South—Their Moral and Physical Characteristics, Their Anglo-Saxonism and Their Technical Skill."*

REV. J. W. SPEAKE of Greenville, S. C.: *"Southern Industry a Spiritual Movement Creating a New People."*

MR. COURTENAY DEKALB, nationally known engineer and geologist: *"American South and Its Influence Upon Our Country's Future."*

MR. HARRY F. ATWOOD, president Constitution Anniversary Association, Chicago: *"The South's Part in Our National Political Development."*

MR. THOMAS H. McDONALD, Chief of Office of Public Roads, United States Department of Agriculture: *"The Highway Development of the South, Past and Prospective."*

MR. S. A. THOMPSON, secretary of the National Rivers and Harbors Congress: *"The Water Transportation Potentialities of the South, the Amount Expended During the History of the Country Upon These Improvements, and the Outlook for the Future."*

MR. KENNETH ROTHARMEL of New York: *"Development of the Portland Cement Industry in the South."*

MR. GEORGE R. HOPKINS, petroleum expert of the United States Geological Survey: *"The Petroleum Industry of the Southern States."*

DR. R. H. HOLLIDAY, president of Oxford College, Oxford, North Carolina: *"The Reconstruction Era Between 1867 and 1876 and Its Destructive Power Upon Southern Prosperity."*

MR. RICHARD WOODS EDMONDS of New York: *"The Paper-Making Progress and Potentialities of the South."*

MR. SAMUEL G. WILMER, railroad editor of MANUFACTURERS RECORD: *"The History of Railroad Development in the South from the Time When This Section Built the First Railroad Ever Constructed in America."*

MR. ROBERT L. MOORE of Atlanta: *"Southern Life Insurance Companies Now Carrying More Insurance Than All United States Companies in 1892."*

The Governor of every state, with one exception, has promised to give a bird's-eye view of his state, showing its educational, agricultural and industrial development.

The State Geologist of every state in the South, with one exception, and that will be covered by a professor of geology, has promised to give facts in regard to mineral resources and their development in each Southern state.

An Opportunity To Which Your Attention Is Invited

AS THE SOUTH'S DEVELOPMENT will have the greatest array of special contributions from leading men in national and state affairs ever brought together in one publication, so far as we can learn, so it will have an exceptional list of advertisements of business concerns, North, South and West.

THE SOUTH'S DEVELOPMENT should not in any way whatever be regarded as a "special issue" in the ordinary sense, for special issues, however interesting and valuable they may be today, are gone tomorrow. Many of them are extremely creditable to the newspapers which issue them, and to the cities in which published, and do good. But THE SOUTH'S DEVELOPMENT will be of an entirely different character. It will be a publication of permanent value for study and reference not only for months, but for years to come. It will be a guide to people in all parts of the country as to the resources of the South. It will be filed in libraries, private and public, for constant reference. Investors in the North and West studying from time to time the opportunities of the South will constantly turn to THE SOUTH'S DEVELOPMENT for information, and the advertising pages will to many be as interesting as the reading pages.

It is our desire to have in these advertising pages only the most reputable concerns and towns and cities worthy of being found in such a publication. While the list of advertising contracts already received is quite lengthy, there is still ample room for others.

We invite advertising from responsible business concerns in all parts of the country, and individual towns and cities throughout the South, with the feeling that the opportunity to appear in such a publication should be availed of by hundreds who have not yet made a definite decision, but who are considering the matter of advertising in THE SOUTH'S DEVELOPMENT. Those who desire to act on the matter must do so promptly, for some of the forms will go to press during the latter part of October, though the final date of issue will not be until about the end of November or the first of December.

What Business Men Are Saying of "The South's Development"

THE VIEWS of men of affairs are always interesting to other men of affairs, and so we feel justified in quoting as follows from a great mass of letters which we have received from subscribers and others who have been pouring in their orders for THE SOUTH'S DEVELOPMENT, to be issued by us about December 1:

J. KRUTTSCHNITT, chairman Southern Pacific Company:

"We have decided to order 200 copies of THE SOUTH'S DEVELOPMENT, 190 of which are to be sent to W. R. Scott, president Southern Pacific Lines, Houston, Texas, the remaining ten to be sent to me at 165 Broadway."

W. P. JAY, cashier of the Beaufort Bank, Beaufort, S. C., writes briefly, but very much to the point, and we wish that thousands of others would follow his example. He says:

"Please reserve for us twenty-five copies of THE SOUTH'S DEVELOPMENT."

E. F. WATSON, attorney-at-law, Burnsville, N. C., writes:

"You may send me eight copies of THE SOUTH'S DEVELOPMENT, as I wish to place some of these volumes in the library of the Yancey Collegiate Institute and send some of them to my friends."

S. S. PRATT, vice-president and sales manager, Volunteer Fuel & Iron Co., Lafollette, Tenn.:

"We would like to have about eight copies of THE SOUTH'S DEVELOPMENT."

C. W. HUNTINGTON, president of the Virginian Railway Co., New York:

"We shall be glad to have you enter our order for ten copies of THE SOUTH'S DEVELOPMENT."

PERRY LIME & CEMENT Co., Vicksburg, Miss.:

"Please enter us for six copies to be forwarded whenever ready."

J. F. WATSON, works office manager Mathieson Alkali Works, Saltville, Va.:

"We enclose check for ten copies of THE SOUTH'S DEVELOPMENT. Ship them to us by express at the earliest possible moment."

MT. DORA SALES COMPANY, Mt. Dora, Fla.:

"You are hereby authorized to enter our order for five copies of THE SOUTH'S DEVELOPMENT."

W. T. SMITH LUMBER Co., Birmingham:

"We are enclosing our check covering 25 copies of THE SOUTH'S DEVELOPMENT. Send them to us at Chapman, and we can pass them out to those we want to see them."

Some Questions for Your Consideration

HOW MUCH do you know about the real business life of the Old South prior to 1860?

How much do you know, or do your children know, even if they are in college, about what business men of the Old South achieved in advance of all others in the world?

How much do you know about men of science of the Old South and the extent of its business and industrial development, and the inherited trait of an industrial and scientific character thus assured to this section?

How much do you know about the spirit that was abroad in the South prior to 1860 and voiced in dozens of commercial conventions held in different parts of that section for stimulating a larger interest in commerce and manufacturing and railroad building?

How much do you know about the Colonial homes of the South as typifying the character of the men who in early days laid the foundation of this Government and led the South and the nation into the road which has given our nation the amazing advance surpassing that of all other countries of the world?

How much do you know about the extent of hotel building in the South as indicative of the new era in travel and motoring and business, of which the hotel is the exponent?

How much do you know about the truly amazing banking progress of the South during the last fifty years?

If you were asked to give the facts in regard to the growth of the life insurance business of the South, which has had a phenomenal development, could you give even a half-way intelligent answer?

If you were asked what has been the progress of the South as a whole or of individual states in educational work, would you not have to confess your inability to answer a question so directly vital to the welfare of your state and your section?

If you were asked to specify the outstanding acts of Southern men in the founding of this Government, in forming its Constitution and in clarifying the work of the Supreme Court, what answer could you give?

If you were asked—and this question is constantly being put to Southern people—as to the exact condition of the employes in Southern cotton mills, their moral and physical character, the work they do, how they look, how they live, could you answer? If not, it is your duty to be able to do so, for only by knowing the facts could you convince the many misinformed people about Southern mill employes and labor conditions of the truth, and thus help to set at rest the numberless false reports which fill the papers of the North and West at times and fill the minds and hearts of millions of Northern and Western people.

These are questions which all thoughtful men and women ought to put directly to themselves. They may be fairly well educated, many of them may be highly educated, college people, but could they answer the questions which we have given to their own satisfaction and to the enlightenment of the questioner? And yet every question is one which a man or woman claiming to be interested in the South should be able to answer offhand.

The answer to every one of these questions, and to a thousand others which might be asked, will be found in **THE SOUTH'S DEVELOPMENT**, a very encyclopedia of information about this section, past and present, with some suggestive facts to indicate something of what its future will be.

Our Knowledge of the Earth's Natural Resources.

GULF OF MEXICO TO BE BASE OF RESEARCHES PLANNED BY NAVAL SCIENTIFIC EXPEDITION.

By LIEUTENANT COMMANDER GEORGE E. BRANDT, U. S. Navy.

The South has reason for congratulation that the scientific expedition being organized by the United States Navy to solve the mysteries of the oceans will begin its work in the Gulf of Mexico next July. This decision has been reached by the Conference on Oceanography, composed of representatives of all the Government departments and scientific institutions.

Oceanography is a wide field. It covers such matters as the origin and habits of icebergs, the hot and the cold currents, salt and gas in the water, the plants and the animals that inhabit the sea, the winds and the waves, the fogs and the rains, radio communication and submarine cables, navigation and fisheries. In fact, it is related to every department of human life and human welfare.

It is proposed, after completing operations in the Gulf of Mexico, to take up the Caribbean region and neighboring parts of the North Atlantic, extending south through the Panama Canal into the Pacific to the Galapagos Islands.

Inasmuch as the expected increase in population must before many years give rise to a condition in which the products of the land will be insufficient to feed this population, recourse must then be had in a much larger measure than at present to the products of the sea. For it is realized that the agricultural and animal resources of the oceans greatly exceed those of the land. This is true not only because five-sevenths of the earth's surface is covered with water, but also because this water teems with living organisms. In this connection it has been pointed out by Dr. Edwin E. Slosson that there is a possibility of carrying on in the ocean something that might be called "cubical agriculture," or farming in three dimensions. Whereas on the land we are limited to a single surface, in the ocean farms are piled on farms, like the different stories in a skyscraper, each story with its peculiar plants and animals.

It behooves us, therefore, to take an inventory of the bountiful resources of the sea with a view to their practical



(Courtesy of Hydrographic Office, Navy Department.)

U. S. S. SOLACE.

Subsequent work will be done in the waters of the North Pacific and North Atlantic oceans.

These plans have developed in the Conference on Oceanography called by the Secretary of the Navy, which meets from time to time in the Hydrographic Office of the Navy Department in preparation of its final report to the Secretary of the Navy, which it is expected will be ready in October. Capt. F. B. Bassett, hydrographer of the Navy, has been elected president of the Conference, and Lieut. Com. George E. Brandt, U. S. Navy, secretary general. The principal aim is results of practical economic value.

use. The researches planned will locate and survey many new fishing banks in the Gulf of Mexico and the Caribbean Sea which, when developed, will add enormously to the nation's wealth. Then, too, we must conserve this wealth of fisheries resources to meet the requirements of increasing population. But such conservation can be effectively planned and practiced only when we know more about the life history, habits and food supply of the fish and the complex interrelations of the sediments, the chemical and physical properties of the waters, the currents, the plant life and

(Continued on page 70)



(Courtesy of Williamson Undersea Photos)

THE WONDERS OF THE DEEP.



(Courtesy of Williamson Undersea Photos)

THE WATERS OF THE OCEAN TEEM WITH ANIMAL AND VEGETABLE LIFE.

(Continued from page 67)

the animal life in the oceans. With full knowledge we shall find ways, not only of conserving but also of greatly increasing this food supply.

Inasmuch as the mud from the Mississippi River in the Gulf of Mexico, to a large extent, nourishes sea plants and those small creatures that serve as food for fish, it may be said that the sediment from our farms carried away by the great river goes to feed the fish in the Gulf of Mexico. To what extent this is true we do not know, but we are going to find out.

Furthermore, this Mississippi mud, settling on the bottom of the Gulf, mostly in the western half, represents millions of tons taken every year from the broad expanse of the Mississippi Valley and deposited in a comparatively small area. Just how far is this mud distributed? Is it this great ever-increasing weight added to the sea floor that disturbs the equilibrium of the land and causes earthquakes and volcanic eruptions from Mexico to Costa Rica?

Passing on from the mud and fish, let us consider how life upon the land is affected by conditions in the Gulf of Mexico—Caribbean area. Look at the chartlet (Fig. 1) and note the paths of storms for the month of August as recorded by the Hydrographic Office. These paths indicate how

weather born in these seas makes its procession over a large portion of the United States.

The rainfall of our Southern states consists mostly of water from the Gulf of Mexico and the Caribbean Sea. The evaporation of this water and its distribution in the form of rain depends upon the currents, the temperatures and the salts of the surface waters of this region and upon the

winds. Except for the winds, we know very little about these controlling things. Consequently we cannot foretell what kind of weather we are going to have next year. When we know more about the oceans, we can calculate the elements of the climate cycle and we will then have a means of predicting weather conditions a year in advance with certainty, particularly the periods of rainfall and drouth and their duration. This information will enable us to control our agriculture and take full advantage of those climate and weather conditions, upon which the productivity of the soil absolutely depends.



CAPT. FREDERICK B. BASSETT,
U. S. NAVY.

Hydrographer of the Navy. Elected President of the Congress on Research in Oceanography.



LT.-COMDR. G. E. BRANDT, U. S.
NAVY.

Able to the Hydrographer. Elected Secretary-General of the Conference on Oceanography.

The Weather Bureau, the Smithsonian Institution and a number of independent scientists have lately attacked with gratifying success the mathematics and theory of weather. The laws which have been deduced find only limited practical application, because exact data from the oceans is lacking.

Consider the waters of the oceans as a great reservoir for storing and distributing the heat which comes to the earth from solar radiation. This radiation, as shown from careful observations made by the Astrophysical Observatory of the Smithsonian Institution, under Dr. C. G. Abbot, varies considerably from month to month and year to year. (Fig. 2.) Since the waters of the oceans act as an intermediate heat reservoir, the full effect of a change in solar radiation is not felt until some years later. According to Herbert J. Browne, who has made extensive study of the subject, the weather for 1925-26-27 has already been determined by heat stored in the oceans from the solar radiation of 1921-24. Would it not, therefore, be worth millions to the nation to know the waters of the ocean?

There is need for a better understanding of the origin, the course and the effect of the Gulf Stream. The Hydro-



(Courtesy of Dr. C. G. Abbot, Director Smithsonian Astrophysical Observatory)
SMITHSONIAN OBSERVING STATION ON MT. WILSON, CAL.
For studying solar radiation and other physical phenomena.

graphic Office has reports from mariners which indicate that the temperature and the strength of the Stream are this summer somewhat reduced. This is no more than what was expected from the reduction in the solar radiation during the past two years. This slacking of the Gulf Stream probably accounts for the unusual ice conditions encountered by the American flyers in Iceland and Greenland. It is important also to know the influence of the Gulf Stream upon the navigation of vessels and its controlling effect upon the drift of icebergs.

Before beginning all the above mentioned investigations a complete underwater map of the Gulf of Mexico—Caribbean area—will be made to show the shape of the basins and the contours of the bottom. Upon this foundation the entire

structure rests. The depth of water and the hills and the valleys on the bottom affect the tides and currents, the sediment and the plant and animal life. Fortunately, we have at hand a means for determining the depths of the ocean and the contours of the bottom in the sonic depth finder, recently invented by Dr. Harvey C. Hayes, research physicist of the Navy. This sonic depth finder, now thoroughly developed by the Navy and installed on a number of naval vessels, measures the depths of water by sound instead of by the slow and cumbersome method of the wire and weight.

Sound is sent out by the instrument, strikes the bottom and is reflected back to a specially designed receiver. An accurate means is provided for measuring the time interval between the sending out of the sound and its return to the receiver. The time interval indicates the depth of water, because the deeper the water the longer the time interval. Sound travels through water at the rate of 4800 feet a second. The soundings may be taken when the vessel is proceeding at any speed, even the highest. It is almost incredible, but the human ear can detect a time difference of 1-200,000 of a second. Hence, results from the use of the sonic depth finder are highly accurate.

The sonic depth finder in the hands of geologists may lead to the location of oil fields beneath the waters of the Gulf of Mexico. The Hydrographic Office has an interesting record of the appearance of oil spots on the surface of these waters, a large number of which have been located and charted.

Our geologists have made an extensive study of the geographical features in the Southern oil fields, and have been able to establish definite relationships from which they are able to map the exact location of the oil-bearing strata.

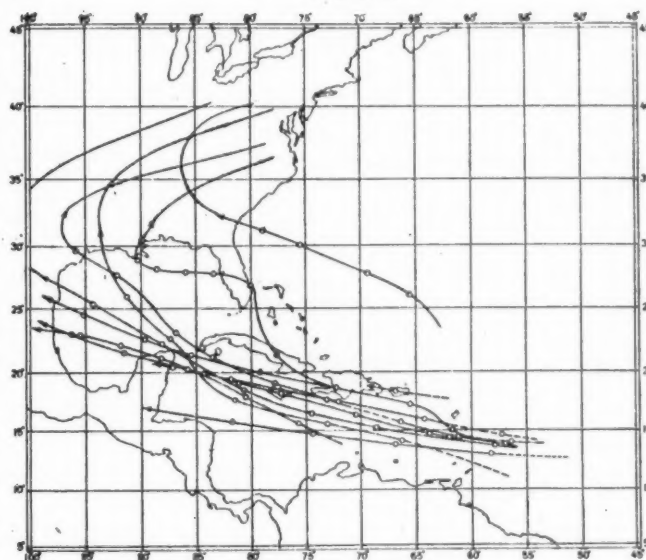
If we knew as much about the geological formation beneath the water as we do on shore, we would have the means of accurately locating the oil-bearing strata on the bottom of the Gulf of Mexico.

Research into all these subjects will prove an enormously

attached to the vessel an appropriate staff of scientific workers. Congress will be asked for a small appropriation, probably not more than \$100,000, to cover the necessary special apparatus and scientific instruments.

The practical economic results will repay this expenditure many times. For instance, Dr. Waldo Schmidt of the National Museum says: "Our museum collections have their economic as well as their scientific value. As an example,

FIGURE 1.



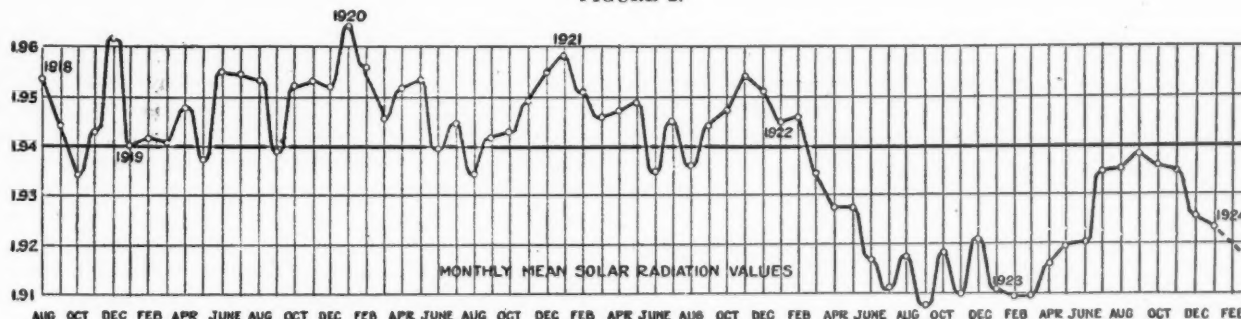
(Courtesy of Hydrographic Office, Navy Department.)

PATHS OF WEST INDIAN HURRICANES
During the month of August, 1900, to 1921.

for some years bottom samples in the National Museum have been studied by Dr. J. A. Cushman of Sharon, Mass. He has written many systematic treatises upon these collections, particularly with reference to a little shell-building animal called the foraminifer. He knows more about this particular little animal than anybody else, and this specialized knowledge he was able to turn to excellent practical advantage in an unexpected way.

"With the development of the Gulf oil fields it was found that time after time foraminifera came up in the borings. These organisms proved to be accurate indicators of the

FIGURE 2.



(Courtesy Dr. C. G. Abbot, Director of Smithsonian Astrophysical Observatory.)

THE ABOVE ILLUSTRATES THE VARIATION IN THE SUN'S HEAT FROM AUGUST, 1918, TO FEBRUARY, 1924. ITS PLACE, WELL BELOW THE MEAN OF 1.94 SINCE FEBRUARY, 1922, HAS A DEEP SIGNIFICANCE IN THE WORLD'S METEOROLOGY.

profitable investment. The thousands expended will return as millions in practical economic results.

It is proposed to use the U. S. S. Solace for oceanographic research work. The Solace was built in 1896 by the Newport News Shipbuilding & Dry Dock Co. as a merchant vessel. During the Spanish-American War, she was purchased by the Navy and converted into a hospital ship. She is now out of commission at the Navy-Yard, Philadelphia.

In addition to the regular Naval personnel, there will be

presence of oil. The expert, knowing these little animals so well, was able to make the very finest distinction between the different species and to locate with a high degree of accuracy the oil-bearing strata.

"A large oil company, recognizing the need for authoritative information, is very pleased to have the services of Dr. Cushman and to pay him an enormous salary. All this from a careful and scientific study of what the average person would consider ordinary mud and museum junk."

Southern Business Men, Financiers and Agriculturalists Demand Protective Tariff.

[Special Correspondence Manufacturers Record.]

New Orleans, La., October 11.

Democrats of Louisville and other Southern states demanded a greater protective tariff at the fifth annual convention of the Southern Tariff Association, held at New Orleans, October 7.

They demanded it in the interests of rice, cotton, sugar, livestock and peanuts.

They demanded it in the interests of the mineral resources of the South.

They demanded it upon economic, not political, grounds. Politics they left entirely out of the discussion.

"We know, and all men know, that our Southern agricultural and stock-raising industries cannot survive if their products are placed upon the free list," said the resolutions. "We therefore insist that the people of the South and farmers everywhere in this great republic shall be given an equal opportunity before the law in every line of activity, and that tariff levies sufficient to maintain American standards of living and wage reward shall be provided in the law."

The resolution specifically demands that the present tariff be maintained upon all Southern products, and especially vegetable oils, peanut and peanut oils, beef, veal, mutton and lamb, eggs and poultry, sugar, rice, wool, mohair, hay and raw materials; that a tariff levy be placed upon long-staple cotton and hides, now exempt; and that the existing schedules, at least, be maintained upon all mineral products.

John H. Kirby of Houston, president of the Association, opened the meeting with the statement that the United States from its earliest days was committed to the policy of the protective tariff. The first protective plank was written, he said, by Madison. Jefferson, Monroe and Jackson, he continued, were protectionists. So was Calhoun, until the cotton situation of the day caused him to switch and brought about the difference in tariff ideas along present political lines.

W. D. Haas of Alexandria, president of the Louisiana Bankers' Association, said that the bankers of that state are pretty thoroughly committed to the policy of protective tariff. He said that without it prosperity could not be maintained.

Others to speak along the same lines were:

G. T. McElderry of Talladega, Ala., president of the Alabama Farmers' Union.

Harry D. Wilson, commissioner of agriculture of Louisiana. Congressman Zach Spearing of New Orleans.

Louis D. Dickerson of McComb, Miss., chairman of the Mississippi division, Southern Tariff Association.

Other speakers referred to the necessity for tariff upon specific industries, as follows:

R. H. Polack, salt.

E. A. Burguières, sugar.

J. D. Pinner, peanuts.

William Polk, wood pulp.

Cael Speh, naval stores.

I. Rhea, burlap.

Alfred Wettimark, dairy products.

A. M. McFadden, livestock.

Edward Woodall, vegetable oil.

Frank Rickert, rice.

Officers elected for the ensuing year were: John H. Kirby of Houston, Tex., president; J. C. Barry of Lafayette, La.; J. B. Pinner of Suffolk, Va.; J. S. Sewell of Birmingham, Ala., vice-presidents; J. A. Arnold of Washington, D. C.,

executive manager; George H. Colvin of Fort Worth, Texas, treasurer; Ida M. Darden of Fort Worth, secretary.

In detailing the disaster to the South which would follow reduction of present duties on Southern products, speakers cited that, for instance, the Louisiana salt mines even now are unable to expand their sales to more than 5 per cent of the salt consumed, due largely, it was said, to German competition.

Virtually the end of the peanut industry, involving \$100,000,000 a year in this country, also was forecast, unless the rate on vegetable oils is at least maintained.

As president of the American Cane Sugar League, Ernest Burguières described the "tampering" with the sugar tariff and pictured the troubles of the Louisiana planter, showing that nearly every important sugar producing and consuming country has a higher sugar duty than the United States.

Cottonseed oil and rice also were said to be in greatest danger in event of any tariff reduction.

Following the session, Dr. Haas and Col. William Polk, chairman of the industrial bureau of the Alexandria Chamber of Commerce, returned to Alexandria where Dr. Haas discussed "The Relationship of the Tariff to General Business," and Colonel Polk spoke of the future development of the paper and pulp industry in the South, and the necessity of proper tariffs to help stimulate the growing of timber for the manufacture of paper and paper pulp. In his remarks Colonel Polk said:

"The question of growing timber is one of greatest importance to that territory which has been denuded of its timber. These lands are the best suited for the reproduction of paper-pulp stock. At the present time a large amount of paper is being imported into this country from Germany and the Scandinavian Peninsula, and these countries are reforesting their lands continuously.

"I believe a tariff should be levied that at least will put the growing of timber in the South on a competitive basis without lowering the standard of living of this country."

Sarasota Bay Development Embraces 520 Acres—Plans Provide for Complete City.

Regarding a recent announcement that J. H. Lord of Sarasota, Fla., is making plans for a large development on Sarasota Bay, four miles south of Sarasota, Mr. Lord wires the MANUFACTURERS RECORD: "Sarasota Bay Estates includes development 520 acres fronting two miles Sarasota Bay; high-class, restricted suburban townsite; seawalls; islands thrown up; complete city of modern conveniences, including miles of paved streets, curbing, concrete sidewalks, water works system, electric lights, sewage-disposal system; provisions made for schools and parks, playgrounds, recreation piers, yacht basin, community center, business blocks; 2400 building sites; G. B. Marshall and P. H. Ennis of Jacksonville have exclusive handling sales."

It is stated that Sarasota Bay Estates, the name of the proposed townsite, will be unique in its development. The north end of the property borders on Phillipe Creek and on the west it is located on the bay. Across the bay is Siesta Key, which will be connected with Sarasota Bay Estates by the new Stickney Point bridge, which will be accessible by a new road to be paved by the county. This road will connect with the Tamiami Trail on the east, which forms the eastern border of the property. A wide boulevard will be built along the two-mile bay front and islands will be thrown up in the bay connected with the mainland by artistic bridges, the islands to be sold for homes and estates.

Middle States Textile Leaders in Annual Meeting Discuss Economic Questions.

[Special Correspondence Manufacturers Record.]

Louisville, Ky., October 11.

The Middle States Textile Manufacturers' Association, composed of textile-mill concerns of the six Central States—Kentucky, Tennessee, Indiana, Ohio, Illinois and Missouri—held its annual meeting at the Elks' Club here on October 8, with an all-day session for discussion of conditions affecting the textile industry.

W. G. Young of the Home Cotton Mills, St. Louis, led a discussion under the heading, "Comparison of Wage Rates in Various Sections," and stated that an investigation had shown that wages paid in the various sections of the Middle States Association compared favorably with one another and with the country as a whole, as well as with wages paid labor in lines that compete with the textile industry for the same classes of labor. It was the sense of the meeting that "reduction in wages is not a remedy for depression in industry," and that reductions merely accentuate dullness, cause for unrest on the part of labor, uncertainly on the part of the textile manufacturers and other employers, and result in buyers becoming uneasy and less willing to purchase merchandise.

The election of officers resulted as follows: President, C. A. Young, Indianapolis Bleachery, Indianapolis; vice-president, F. G. Eberhart, Mishawaka (Ind.) Woolen Mills; honorary life president, Philip S. Tuley, Louisville Cotton Mills; secretary-treasurer, Lee Rodman, Indiana Cotton Mills, Cannelton, Ind.; directors, J. B. Young, Bemis Cotton Mills, Bemis, Tenn.; Robert A. Cochran, January & Wood Co., Maysville, Ky.; C. N. Brown, Lincoln Cotton Mills, Evansville, Ind.; E. S. Hobbs, Aurora Cotton Mills, Aurora, Ill.

Long discussions were held concerning the Howell-Barkley bill, which was before the last Congress, and which will come up again in the next session. This bill, it was claimed, would destroy present good conditions of American railroads, prevent proper financing, as the security buyers would not be in the market; interfere with present rate-making methods, taking control of labor into labor unions, and upset the best conditions known in transportation over a long period of years. The Associated Industries of Kentucky, composed of large employers, formerly known as the Kentucky Manufacturers and Shippers' Association, recently adopted resolutions to this effect in connection with this bill.

Another discussion of major importance concerned the proposed Twentieth Amendment to the Constitution, which would prevent persons under 18 years of age from doing any work on the farm, in the home, or industrially or otherwise, working a hardship on parents as well as children. The resolutions adopted follow:

"The Middle States Textile Manufacturers' Association, the membership of which represents various branches of the textile industry in several states, their plant being uniformly free from child labor in the mechanical departments of such organizations, have consistently upheld the child labor laws of the various states in which these organizations are located, as enlightened, humanitarian statutory regulations, and share the general opinion of these child labor laws as in their terms amply protecting the child life of the several states in which such organizations are located. They earnestly urge the rejection of the proposed Twentieth Amendment to the Constitution of the United States when the measure is brought before the legislatures of these several states for consideration.

"The proposed Amendment contains the following politically revolutionary suggestion:

"Section 1: The Congress should have power to limit, regulate and prohibit the labor of persons under eighteen years of age."

"The proposed Amendment would confer upon the Congress the exclusive right to regulate not merely the working life of children, but of every person in the United States under 18 years of age. It would include the power to prohibit all such persons from earning a livelihood at any and all forms of employment, or even to engage in any task or occupation in aid or support, or at the request or direction, of their parents or guardians at any time or place, and not less at home or within their premises than on their farm or in any factory.

"The proposed grant of authority includes, by necessary implication, the right to attach any preliminary condition to any person under 18 engaging in labor. It confers, therefore, the right to determine what hours, or any, they may work, at what occupations, at what pay, and with what preliminary education or training, the right to direct and supervise such education or training, to provide by taxation for the support of those under 18 who may be prohibited from labor or of the parents or guardians dependent upon the aid of such prohibited labor.

"The Amendment would, therefore, convey power in terms and to an extent not now possessed with respect to the same subject-matter by any state of the Union. Nor is it probable that the people of any state would confer such power upon it. It would give a right of intervention between parent and child, and Federal control over farm life without precedent in the history of local government.

"The proposed Amendment would remove from the state a subject and relationships which by every concept and tradition of American government are peculiarly their right and obligation. Any subsequent legislation could be administered and enforced by the Central Government only through an elaborate and expensive bureaucratic system, inevitably tending to be top-heavy, irresponsible, remote from the subject of regulation, irritating in the circumstances of supervision, and by its operation lessening respect for and obedience to the central authority.

"This Association believes the Amendment is utterly unnecessary and fraught with gravest dangers in the precedent it sets. The states have neither neglected adequate protection of child life nor failed in the development of sympathetic, re-enforcing public opinion. On the contrary, the circumstances and progress of state legislation exhibit an effective and constantly growing body of appropriate local regulation without parallel during the past decade in any other field of social reform.

"Resolved, That the Howell-Barkley bill be opposed by this Association on the following principal grounds:

"First.—It would repeal title 3 of the Transportation Act of 1920, from section 300 to 316, inclusive, establishing the Railroad Labor Board. In our judgment, this board has not yet had an opportunity to vindicate the confidence that was placed in it by those who favored its creation. In any event, the Transportation Act of 1920 provides for a better procedure for adjustment of disputes between employers and employees than under the Howell-Barkley bill.

"Second.—The general public is excluded from participation in all preliminary adjustment of difficulties between carriers and employees, although the public interest at stake is the only justification for a Federal statute relating to the subject.

"Third.—The measure provides a very complex and expensive machinery to compel by legislation national agreements as distinguished from agreements between the management and the employees of each road.

"Fourth.—Membership of all adjustment bureaus on the employees' side is confined to the membership of railroad unions. This is, in effect, a compulsory adoption of the closed shop by all American railroads by an Act of Congress, and it would force unwilling citizens into railroad labor organizations under pain of deprivation of all representation with reference to their contracts with their employers.

"Fifth.—We urge upon the members of Congress from our respective states their opposition to this measure, which will be introduced in the next session of the present Congress.

"The Middle States Textile Manufacturers' Association, regards with regret and alarm the marked tendency in radical proposals affecting the constitutional form of government of the United States towards breaking down and, indeed, remov-

ing the many safeguards which have made for the safety of our Federal Government. It deplors as a grave menace the insidious and disguised, and at times overt, attacks upon the strongest bulwark in our form of government—the courts, and especially the Supreme Court of the United States. It earnestly trusts that the people of the United States will become awakened to the perils involved in the proposed amendments to the Constitution and the statutory changes that are more or less cunning and veiled, having the purpose of impairing the powers of the Supreme Court of the United States, and placing in Congress dangerous privileges that in effect would destroy the time-honored and established rights and prerogatives of the legislative and judicial branches of our Government.

"The Middle States Textile Manufacturers' Association condemns proposals to nationalize public utilities through Government ownership and operation, with the inevitable resultant inefficiency and disproportionate increase in the personnel as shown on all Government-operated European roads, and the unavoidable increase in cost at a time when reduced rates, possible only through efficiency of operation and skill in administration, are demanded. Rates under wasteful Government management are only capable of reduction through outright losses in operation. These losses can only be retrieved by being passed on to the public in the form of added taxation. Government operation of railroads would be thoroughly subversive of individual initiative and would establish a civil service impossible of control and accord a political power unprecedented in this or any other nation.

"The Middle States Textile Manufacturers' Association unanimously opposes such radical and unsafe and unsound proposals.

"The Middle States Textile Manufacturers' Association urges upon the members of Congress from the several states in which the plants of Association members are located earnest and consistent effort to bring about a reduction in taxation, which is now stifling and oppressive. Federal, state and local taxation has attained proportions intolerable to business and portends disaster.

"The Association urges upon members of Congress from the several states in which the textile plants of Association members are located that enactment of laws shall be restricted within absolutely essential limits. They condemn the superfluity of restrictive laws and administrative regulations which have characterized so many recent sessions of Congress."

American Power & Light Company May Acquire Southern Utilities—Properties Involved Valued at \$25,000,000.

Relative to recent reports that the American Power & Light Co. of New York is negotiating for the purchase of the Florida holdings of the Southern Utilities Co., Palatka, Fla., the former company wires: "American Power & Light Co. offers to give its preferred stock for common stock of Southern Utilities Co. on share for share basis. J. G. White & Co. have deposited their holdings on this basis of exchange."

The Southern Utilities Co., it is said, operates fifteen plants, valued at more than \$25,000,000. Its properties are located at West Palm Beach, Okeechobee City, Fort Lauderdale, Miami, Stuart, St. Augustine, Live Oak, Pensacola, Sanford, Lakeland, Arcadia, Punta Gorda, Fort Myers, Bradenton and Palatka.

Greenville to Vote on \$2,000,000 Water Bonds.

Greenville, S. C.—Qualified voters of Greenville will vote November 4 on a bond issue of \$2,000,000 for the expansion of the city's water system. Plans agreed upon by the water commission call for the purchase of 9000 acres of land in the Saluda Mountains, 20 miles west of Greenville, and the construction of a reservoir for a daily capacity of 10,000,000 gallons. Big water mains will be constructed from the new reservoir to reservoir No. 3 on Paris Mountain, and from this reservoir the water will be conveyed through two 12-inch mains to be constructed and a 24-inch main already installed, the three mains to have a capacity of 7,000,000 gallons.

It is thought the work of building the new system will begin in the spring.

Southern Exposition to Enlighten the World.

By F. ROGER MILLER, Asheville, N. C.

After half a century of tremendous development, not fully appreciated in other sections and other countries, the South proposes to acquaint the world with its culture, progress and possibilities, and on January 19 next the South's army of progress will enter New York city and occupy the Grand Central Palace with an Exposition designed to engage the attention of the entire nation. So far, 12 Southern states are definitely enrolled for the campaign, and it is likely that others will be added.

According to all plans, the Grand Central Palace will be filled with artistic displays presenting the material, artistic, educational and even spiritual achievements and advantages of the South. Schools, roads, the great variety of recreational facilities, music, arts and letters, commerce, industries, transportation, agriculture, natural resources—all these and many other phases of Southern development will be shown in the exhibits that are now being prepared for the Exposition.

Commercial and industrial organizations in Texas have underwritten a special fund of \$75,000 to defray the expenses of a state exhibit, and have placed a committee of 15 in charge of the arrangements. Porter A. Whaley, general manager of the West Texas Chamber of Commerce, is the state chairman.

In Arkansas, 52 representatives of organizations responded to a call from the Governor for a state meeting, in which it was agreed unanimously that Arkansas will enter a large and representative display of resources and products.

Alabama will have an attractive state exhibit and will display a great variety of natural and industrial products. The agricultural exhibit will cover 1000 square feet, and similar space will be used for a display of mineral resources. Many of the large commercial and industrial corporations are co-operating with the Alabama committee.

Georgia organizations have underwritten the full quota of space allotted to that state, and a large portion has been definitely subscribed. Atlanta is planning an exhibit that will cover 3000 square feet. Other Georgia cities participating will include Savannah, Macon, Augusta, Columbus, Athens and Albany.

North Carolina will be a strong competitor for the prize of \$5000 in advertising offered by the MANUFACTURERS RECORD for the best state exhibit. The state committee is constructing a special display that will cover about 8000 square feet, presenting the social and economic progress of the state, resources, industries and opportunities. Separate divisions will be devoted to the Coastal Plain, the Piedmont section and the Mountain section. North Carolina contributed \$15,000 toward the expense of the state exhibit, and more has been subscribed by various organizations.

South Carolina proposes to offer one of the most interesting displays in the Exposition. Special features will include textiles and various other industries which have developed rapidly during recent years. The state contributed \$10,000 to the exhibit fund, the remainder being subscribed from private sources.

All the receipts over and above the actual expenses will be refunded to the exhibitors. Provision has been made for a limited number of independent exhibitors, in order to accommodate large corporations doing business in more than one state.

On a bid of \$194,283, the Reymond Contracting Co., Bowling Green, Ky., has been awarded general contract to erect a 3-story building for the Western State Normal School and Teachers' College at Bowling Green, according to plans by A. Ten Eyck Brown of Atlanta, Ga., and Nevin, Wischmeyer & Morgan, Louisville, Ky., architects.

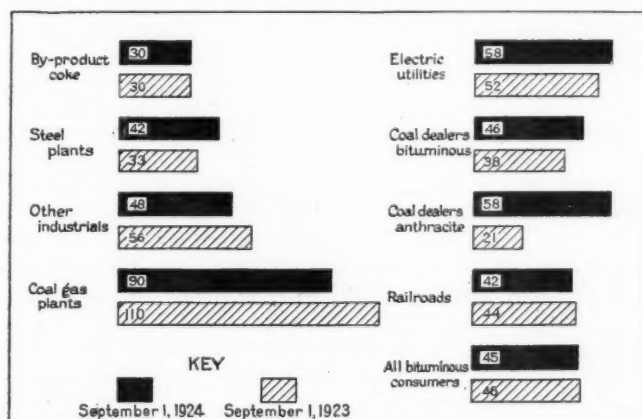
Government Report on Commercial Stocks of Anthracite and Bituminous Coal.

SUPPLY ON HAND, SEPTEMBER 1, 1924, 9,000,000 TONS LESS THAN ON SAME DATE YEAR AGO.

The Government's inventory of coal stocks taken recently revealed the following facts: Commercial stocks of soft coal on September 1, 1924, totaled 47,000,000 net tons, a decrease of 4,000,000 tons from stocks on June 1, and 15,000,000 tons from the record of January 1, 1924; the course of stocks has been constantly downward since the early weeks of the year; stocks on September 1, 1924, were 9,000,000 less than on the same date a year ago, and were more than double those on September 1, 1922, at the close of the miners' five month-strike; compared with August 1, 1921, there was an increase of 6,000,000 tons.

Measured in terms of tons, stocks decreased 24 per cent during the first 8 months of 1924. Measured in terms of days' supply, the decrease was but little over 2 per cent. These percentages are based on averages which assume that the supply was evenly distributed. Stocks are never evenly divided, however, and the use of such averages is proper only for the purpose of comparison. There are those in every community who habitually carry very small or even no reserve stocks.

In addition to the estimated quantity in storage piles of actual consumers, the following quantities are known to have been in transit on September 1: On the commercial docks



NUMBER OF DAYS' SUPPLY HELD BY DIFFERENT CLASSES OF CONSUMERS SEPTEMBER 1, 1924, AND SEPTEMBER 1, 1923.

of Lakes Superior and Michigan, 6,600,000 tons; in storage at the mines or at intermediate points, at least 300,000 tons.

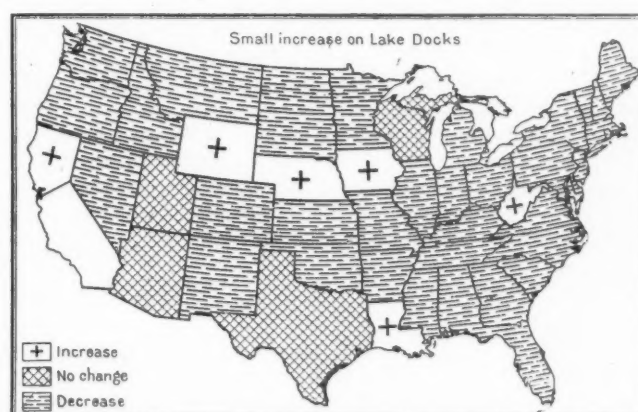
Retail dealers' stocks of anthracite were 71 per cent larger on September 1, 1924, than on the corresponding date of 1923, and they were but 7 per cent less than on November 1, 1921, two months later in the season. As a result of the steady movement of anthracite up the Lakes, the stocks, which stood at 450,000 tons on June 1, had increased to 1,400,000 tons by September 1.

The total quantity of soft coal in the hands of commercial consumers on September 1 was between 42,000,000 and 52,000,000 net tons, probably about 47,000,000 tons. This estimate, which is based on reports from selected list of about 5000 consumers, does not take into account the coal in the bins of householders, concerning which no data are available, nor steamship fuel, nor the tonnage on the Lake docks, which is considered coal in transit.

In comparison with other fall dates, the stocks on Septem-

ber 1, 1924, were 16 per cent less than on September 1, 1923; 114 per cent larger than on September 1, 1922, at the end of the strike; 3 per cent less than on November 1, 1921, and 20 per cent less than on October 1, 1918, when war-time activities had led to large accumulations of coal.

The reports from consumers, supplemented by information from other sources, indicate that the total consumption of soft coal during the first eight months of 1924, including coal that entered into the foreign trade, was approximately 310,000,000 tons, or at a daily rate of about 1,270,000 tons. For the five months ended May 31 the average daily rate of con-



HOW STOCKS AT INDUSTRIAL PLANTS ON SEPTEMBER 1, 1924, COMPARED WITH THOSE ON SEPTEMBER 1, 1923.

sumption appears to have been about 1,370,000 tons, and for the three months ended August 31 it was but slightly over 1,100,000 tons.

Over the country as a whole the industrials had a 48-day supply on September 1, against a 53-day supply on June 1, and a 56-day supply on September 1, 1923. In the case of the industrials, also, the days' supply appears large because of the reduced rate of consumption, and were there to be a sudden revival it would be much less.

As usual, the reserves varied with the distance from the mine and the character of the coal used. New England, Wisconsin, the Upper Peninsula of Michigan and the Northern Rocky Mountain region had a 90-day supply, and New York, New Jersey and the Carolinas had better than a 60-day supply.

In the belt of states extending from Maryland to California and from Texas to Washington none had as much as a 60-day supply, and in many stocks would have lasted less than 30 days. Some of those states, however, use mostly lignite, and in others little coal is burned owing to the availability of water-power, electricity and fuel oil.

As usual, the public utilities were in a particularly strong position regarding stocks, and on September 1 electric-power plants had a supply sufficient to last 58 days, and manufactured-gas plants had a 90-day reserve. The stocks held by the electric utilities, while not the largest from the standpoint of tonnage, were the highest on record when expressed in terms of days' supply. Here, too, the days' supply appears large because of a rate of consumption lower than usual. The supply at gas plants, while sufficient for 20 days less than that on September 1, 1923, compared favorably with that on other dates when stocks were large.

Complete returns from the manufacturers of by-product

coke and iron and steel showed the following reserves on September 1, 1924, and September 1, 1923:

BY-PRODUCT PLANTS.		STEEL WORKS.	
Sept. 1, 1924	Sept. 1, 1923	Sept. 1, 1924	Sept. 1, 1923
Low volatile...33 days	31 days	Steam coal....36 days	28 days
High volatile...29 days	29 days	Gas coal.....56 days	42 days
	30 days		42 days
	30 days		33 days

The greatly decreased activity at steel plants was reflected by a decrease of 39 per cent in the daily rate of consumption of coal from June 1 to August 31, 1924, as compared with the rate in August, 1923. Consequently, although the actual tonnage held at such plants was 22 per cent less on September 1 than it was the year before, it was sufficient to last 42 days, at the decreased rate of consumption, against a 33-day supply on September 1, 1923.

The depression in the iron and steel industry was, in turn, reflected in the demand for by-product coke for metallurgical purposes, and the average daily consumption of coal at such plants declined to 26 per cent of that a year ago. In terms of tons, the by-product plants had a 23 per cent smaller reserve on September 1, 1924, than on that day a year ago. In terms of days' supply, however, the stocks on the two dates were practically identical.

Through the courtesy of the American Railway Association reports have been received from the railroads that indicated a total supply of railroad fuel in excess of 13,000,000 tons, which at the summer rate of consumption would last 42 days. On September 1, 1923, the railroads had stored 16,000,000 tons, sufficient for 44 days at the August, 1923, rate of consumption. These figures include the coal in cars and chutes as well as that in stockpiles.

The householders' demand for soft coal was lighter than usual during the summer months, and September 1 found the retail dealers with good-sized stocks, which, because of the dullness of demand, appeared unusually large. Retailers' stocks on September 1 were sufficient to last 46 days, at the rate of delivery during the three preceding months, an increase of 21 per cent over the supply a year ago. Compared with November 1, 1921, two months later in the season, the day's supply was identical, but the actual tonnage on hand was 20 per cent less.

Engineers View Industries of Birmingham District.

Birmingham, Ala., October 13—[Special.]—The Birmingham district is on exhibition this week, as the first three days bring to this section one of the more important organizations in the industry, the American Institute of Mining and Metallurgical Engineers, in its 130th annual meeting.

Presentation of interesting papers and discussions thereof, meeting of executive and important sub-bodies of the organization and transaction of some little minor routine will occupy the greater part of the time to be allotted to the business sessions. But two journeys into the industrial section of the district promise to arouse great interest—the proximity of raw material as to be seen in no other part of the world, the growth in the manufacture and finishing of the various metals and other sights—are looked for to open the eyes of many who have heard and read of the conditions in the district but never have seen for themselves. These journeys will be taken on special trains.

Coal and ore mining, coke making, iron and steel making, pipe producing, cement making and the wonderful continuous steel projects of the Tennessee Coal, Iron & Railroad Co. (United States Steel Corporation) will be viewed. The visitors will see molten iron carried into the steel plant and then follow molten steel carried into rolls and come out in finished form. From the hills where ore is being taken will be shown the hills which give up coal, and between the two will be seen, with naked eye, the numerous iron and steel plants, all in full operation.

\$12,000,000 DEVELOPMENT AT TAMPA.

117-Acre Subdivision to Be Improved With Hotel, Apartments and Other Buildings.

Tampa, Fla.—At a reported expenditure of \$12,000,000, plans for the development of a subdivision on the south side of Gandy Bridge here, are being worked out by the Furman B. Moodie Properties, Inc., of which Furman B. Moodie is president. Dr. B. M. Moodie, who is interested in the company, wires: "One hundred and seventeen acres, to include \$250,000 hotel, three apartment-houses, \$150,000 pier, two yacht basins, deep water swimming pool, seawall, residences, paved roads, bridges, reproduction of Guffrey vessel tea room in Hollywood to be constructed by Guffrey. New York Yacht and Gun Club to erect hotel; E. G. Rogers of Jacksonville, the apartment-houses; myself, remainder of development; engineers and contractors, McElroy Engineering Co., Florida Engineering & Landscape Co.; E. H. Trebes, contractor, all of Tampa. Architects and complete construction facilities not ready for announcement. Dredging work started."

In addition to facilities mentioned in the above telegram, it is said a handsome park is planned for the development, and that extensive improvement work will be carried out in the residential section, which extends back toward the Inter-bay boulevard.

Detroit Corporation to Erect \$2,000,000 Hotel of 350 Rooms at Miami.

Miami, Fla.—Plans have been prepared by John W. Livingston, art director of the Shoreland Company, for a \$2,000,000 hotel to be erected here by a Detroit corporation. The building will be located at Miami Shores, a new development on Biscayne Bay, near Arch Creek, which is being promoted by the Shoreland Company. It will be ten stories high, of concrete, stucco and terra cotta, and will contain a total of 350 rooms, commanding a view of the entire shore line of the bay from Buena Vista to Baker's haulover on the east.

The main lounge will be located on the first floor of the structure with grill rooms below. A two-story gymnasium will be provided in the north wing, with a large swimming pool adjoining, and on the balcony above there will be space for small shops. Running water and radio service will be provided for each room. Foundations for the building and retaining walls will be constructed in advance of filling, the soil to be pumped and graded later. Grounds will contain grass terraces and will be improved with walks and sunken gardens. In the rear of the hotel it is planned to build a 30-car garage.

Bulkhead and Park Development to Cost \$1,000,000.

Included in plans of W. J. Conners of West Palm Beach, Fla., builder of the Conners Highway, for the development of property in the vicinity of Lake Okeechobee is the construction of a concrete bulkhead for 15 miles along the east shore of the lake, between Lake Okeechobee and St. Lucie Canal, backed by a modern parkway, at a cost of \$1,000,000. With reference to the project the Conners Florida Highway, Inc., wires: "Plans, specifications and detail for construction of bulkhead and development of park along the shore of Lake Okeechobee are not yet complete. Held up pending arrival of Mr. Conners in Florida."

It is said to be the intention of Mr. Conners to go out a few hundred feet into the lake, build the bulkhead and fill behind it, making the lakeside into a park, and divide property abutting the highway into building lots and lands farther back into farms, tapped by spur roads from the main highway. He is reported to have secured options on four sections of land on either side of St. Lucie Canal where it enters the lake for the purpose of building the town of St. Lucie there.

Biennial Census of Motor Vehicle Industry Shows Increase of 89 Per Cent in Total Value Over 1921.

According to data collected at the biennial census of manufactures, 1923, by the Department of Commerce, the establishments engaged primarily in the manufacture of motor vehicles in that year produced 3,472,420 gasoline or steam-driven passenger vehicles, including chassis, valued at \$2,277,800,046; 12,878 public conveyances, valued at \$24,667,251; 1192 Government and municipal vehicles, valued at \$10,051,776; 402,408 business vehicles, including chassis, valued at \$295,868,451; 1236 electric vehicles, including chassis, valued at \$3,059,906, and 11,191 trailers valued at \$4,233,069, together with other products valued at \$547,647,375, making a total of \$3,163,327,874. This total value represents an increase of 89.3 per cent as compared with 1921, the last preceding census year. The output of motor vehicles of all classes, including chassis, totaled 3,890,134 in number and \$2,611,447,430 in value. (The values here given are f. o. b. factory.)

The foregoing figures and the other statistics herewith relate to manufacturers whose principal products were assembled motor vehicles, and do not include data for the production of establishments engaged primarily in the manufacture of bodies, parts and accessories for motor vehicles.

The proportion of closed passenger cars has increased from 10 per cent in 1919 to 21.6 per cent in 1921 and 35.1 per cent in 1923. The number of this class of motor vehicles (not including electric cars) manufactured in 1923 reached a total of 1,201,316, compared with 303,687 in 1921 and approximately 156,000 in 1919.

Of the 351 establishments reporting, 54 were located in Michigan, 46 in Ohio, 32 in Illinois, 30 each in Indiana and New York, 28 in California, 26 in Pennsylvania, 20 in Wisconsin, 14 in Massachusetts, 11 in Missouri, 9 in New Jersey, 6 each in Minnesota and Iowa, 5 each in Connecticut, Texas, and Washington, and the remaining 24 in Colorado, District of Columbia, Georgia, Kansas, Kentucky, Louisiana, Maryland, Nebraska, New Hampshire, North Carolina, Oklahoma, Oregon, South Carolina and Tennessee. In 1921 the industry was represented by 385 establishments, the decrease to 351 in 1923 being due to the omission of 97 establishments which had been included for 1921 and to the inclusion of 63 which had not been classified in this industry for that year. Of the 97 establishments omitted, 48 had gone out of business, 28 were idle throughout the year 1923, 14 had been engaged primarily in the manufacture of motor vehicles in 1921, but reported other commodities—motor vehicle bodies and parts, machine-shop products, and carriages and wagons—as their principal products for 1923 and were, therefore, classified in the appropriate industries; 5 were not engaged in manufacturing during any part of the year, and 2 reported products valued at less than \$5000. (No data are tabulated at the biennial censuses for establishments with products under \$5000 in value.)

The statistics for 1923 and 1921 are summarized in the following statement. The figures for 1923 are preliminary and subject to such correction as may be found necessary upon further examination of the returns.

The total production of motor vehicles, as reported at the 1923 biennial census of manufacturers, differs from the aggregate number as reported in the monthly commercial reports, namely, 3,637,216 passenger cars and 376,293 trucks, by reason of the facts that—(1) The figures in the case of the biennial census relate to production, whereas the monthly figures as published in the monthly commercial reports relate in many cases to factory sales rather than to production. (2) While the biennial statistics pertain as nearly as possible to the calendar year ended December 31, 1923, a few manufacturers

reported for their business years most nearly conforming to the calendar year.

GENERAL STATISTICS OF THE MOTOR-VEHICLE INDUSTRY.

	1923	1921	Per cent of increase*
Number of establishments...	351	385	8.8
Wage earners (average number)	241,356	143,658	68.0
Maximum month	May 258,111	May 163,636	...
Minimum month	Jan. 216,383	Jan. 81,125	...
Per cent of maximum	83.8	49.0	...
Wages	\$406,730,278	\$221,973,586	83.2
Paid for contract work	\$1,961,141	\$982,593	99.6
Cost of materials (including fuel)	\$2,147,463,352	\$1,107,062,085	94.0
Products, total value	\$3,163,327,874	\$1,671,386,976	89.3
Value added by manufacture†	\$1,015,864,522	\$564,324,891	80.0
Horsepower	441,945	.....	.....
Coal consumed (tons of 2000 pounds)	1,797,920	.....	.....
DETAILED STATISTICS OF PRODUCTS.			
Aggregate value	\$3,163,327,874	\$1,671,386,976	89.3
Motor vehicles, gasoline and steam:			
Number	3,888,898	1,590,449	144.5
Value	\$2,608,387,524	\$1,320,672,822	97.5
Passenger vehicles (not including public conveyances):			
Number	3,472,420	1,442,289	140.8
Value	\$2,277,800,046	\$1,145,997,882	98.8
Open—			
Touring—			
Number	1,782,992	903,009	97.4
Value	\$962,097,097	\$678,726,936	41.8
Roadsters and runabouts—			
Number	373,203	196,577	89.8
Value	\$156,563,764	\$120,394,379	30.0
Sport speedsters—			
Number	58,944	.....	.....
Value	\$65,325,986	.....	.....
Other varieties—			
Number	2,709	193	1303.6
Value	\$2,276,017	\$335,258	578.9
Closed—			
Number	1,201,316	303,687	295.6
Value	\$1,066,416,001	\$327,736,159	225.4
Chassis—			
Number	53,256	38,823	37.2
Value	\$25,121,181	\$18,805,150	33.6
Public conveyances (motor buses, sight-seeing wagons, cabs, etc.)—			
Number	12,878	2,213	481.9
Value	\$24,667,251	\$5,741,974	329.6
Government, municipal, etc. (ambulances, fire-department apparatus, patrol wagons, and street-cleaning apparatus)—			
Number	1,192	1,126	5.9
Value	\$10,051,776	\$9,418,826	6.7
Business vehicles—			
Number	402,408	144,821	177.9
Value	\$295,868,451	\$159,514,140	85.5
Delivery wagons—			
Number	27,890	15,084	84.9
Value	\$16,731,019	\$10,656,933	57.0
Trucks—			
Number	252,394	89,389	182.4
Value	\$202,181,258	\$84,566,200	139.1
Horses and undertakers' wagons—			
Number	872	513	70.0
Value	\$2,557,374	\$1,995,217	28.2
Chassis—			
Number	121,252	39,835	204.4
Value	\$74,398,800	\$62,295,790	19.4
Motor vehicles, electric—			
Number	1,236	1,592	22.4
Value	\$3,059,906	\$4,917,743	37.8
Trailers—			
Number	11,191	3,567	213.7
Value	\$4,233,069	\$1,926,426	119.7
All other products, including repairs: value	\$547,647,375	\$343,869,985	59.3

*A minus sign denotes decrease.

†Not including salaried employees and proprietors and firm members. Statistics for these classes will be given in final report.

‡Value of products less cost of materials.

Chicago Realtor Wants 100,000 Acres Florida Lands—May Purchase 1,000,000 Acres.

Tampa, Fla.—It is announced here that W. T. McGowin of the McGowin Investment Co. of this city has received an order for 100,000 acres of farm land in the vicinity of Tampa from a Chicago realtor who desires the property for colonization purposes. The property would be divided into farm tracts of 20 acres or more, it is understood, and sold to purchasers from the middle West. The realtor is said to be prepared to take over 1,000,000 acres with a view to selling the greater portion of it.

Americans Purchase Canadian Interests in the Alabama Power Company.

The plans recently announced in the MANUFACTURERS RECORD by which the Canadian stockholders of the Alabama Traction, Light & Power Co. had agreed to sell the securities of the Alabama Power Co. which it owned, were ratified by a meeting held in Montreal last Friday, and the sale of these securities was completed to the Southeastern Power & Light Co., an American concern organized to purchase the holdings of the Canadian company. Thomas W. Martin, president of the Alabama Power Co., in an announcement of the subject said:

"At the meeting held at Montreal Friday the stockholders of Alabama Traction, Light & Power Co. voted unanimously to sell the common stock and other securities which it owned in the Alabama Power Co. to the Southeastern Power & Light Co., the American company recently organized for the purpose of taking over these holdings. Under the plan, the common stock and preferred stock of the Canadian company will be converted into the common and preferred stock of the American company, and the new company assumes the payment of all of the obligations of the Canadian company, including the interest on the bonds of that company as it falls due and the principal of the bonds at maturity.

"It was stated at the meeting that approximately 80 per cent of the common stock of the Traction company is now owned by American citizens.

"This arrangement will not affect the management or policies of Alabama Power Co., which it is believed will be for the best interests of all classes of security holders of both companies."

New \$400,000 Wallboard Mill Unit in Operation in Virginia.

The United States Gypsum Co. of Chicago has recently put in a sheetrock wallboard mill at Plasterco, Va., as an addition to the plant it has operated there for a number of years. The new mill cost \$400,000 and has a daily capacity of 100,000 square feet of fireproof gypsum wallboard. It has been under construction since last December. Machinery is of modern design, the mixers, wallboard machine and continuous kiln embodying the most recent refinements developed by the engineering department of the company, which handled all details of construction and equipment.

Better service to building trades in Virginia, West Virginia, Kentucky, Tennessee, the Carolinas, Georgia, Florida and Alabama is the object sought by the addition of this mill to the mine and other operations at Plasterco. The plant is said by the company to be the only gypsum property in the Southeast making a wallboard.

More Than 8000 Acres in Cotton.

Plainview, Texas, October 13—[Special.]—More than 8000 acres of the total holdings of 60,000 acres of the Texas Land & Development Co. near Plainview are planted to cotton this season. Picking is now in progress and a production of 3500 to 4000 bales is expected. This company also had about 6000 acres in wheat, which gave an acreage yield of about 20 bushels an acre. The remainder of its farm is devoted to growing sorghum grains for feedstuff, with the exception of 200 acres of irrigated vegetable garden, the products of which are shipped to market.

The Texas Land & Development Co. is owned by the same Canadian financial interests which own the large lumber mills and 3,000,000 acres of timber in the state of Chihuahua, Mexico, and the Mexico Northwestern Railroad, as well as the Medina Irrigation Co., with its 60,000 acres of land and great dam and irrigation system near San Antonio.

The company purchased its land holdings in this part of the plains region of northwestern Texas at a time when there was practically no farming being done here and it divided the tract into 215 farms, ranging from 40 to 640 acres each, and constructed modern improvements upon each tract.

Proposed Country Club Development at Daytona—Property Fronts 4000 Feet on Halifax River.

R. L. Smith & Co.

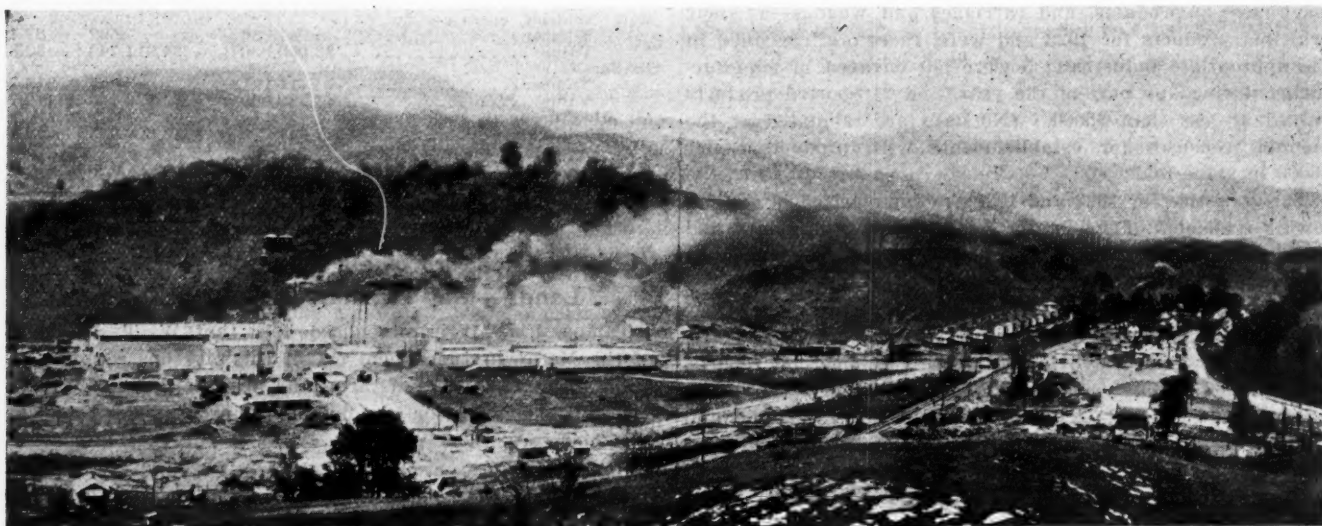
Daytona Beach, Fla., October 2.

Editor Manufacturers Record:

Outlining details for the development of the Bethume tract on the Halifax River by the Country Club Development Co.: This tract begins at the south line of the old city limits and has a frontage of 4000 feet on the Halifax River. From that point it runs west to Ridgewood avenue and thence north back to the old south city limits. Part of the property facing on Ridgewood avenue is owned by individuals, but will be included in the developments. The tract has over 40,000 feet of street frontage. Frederick Law Olmstead of Boston is now working on plans.

We intend to make this as high-class development as can be found in the city. The river frontage is now low, but will all be filled in and beautified according to Mr. Olmstead's plans. Lots will all be large and highly restricted. Improvements, such as streets, sidewalks, parkages, etc., will be of the best. Gas, lights, water and sewerage will be furnished by the city, as this property is all inside of the city limits. The Daytona Golf and Country Club adjoins this property on the west. Part of the Osceola-Gramatan Hotel property is on the tract, while the main building is across the road.

T. J. McREYNOLDS, JR.



GENERAL VIEW OF UNITED STATES GYPSUM COMPANY PLANT AT PLASTERCO, VA.

September Construction South Surpasses Valuation for Same Month Last Year by 15 Per Cent.

Atlanta, Ga., October 9—[Special.]—Showing a gain of practically 15 per cent over the corresponding month last year, building in 95 Southern cities again made a highly gratifying showing during the month of September, according to records compiled by the survey department of G. L. Miller & Co. of Atlanta. The total amount reported for the month was \$42,912,277.

Construction is in a healthful state throughout the entire section as is revealed by the fact that 60 per cent of the reporting cities showed gains. Another indication of the favorable condition of the industry is found in the fact that very few single building items of large valuation are included. The big majority of construction is of residential, small commercial and industrial nature. Previous months have been greatly helped by numbers of buildings of unusual size.

Louisville made a high place for itself during the month by exceeding the \$3,000,000 mark, due to several important projects, including the St. Joseph Infirmary, \$750,000; the Baptist Theological Seminary, \$450,000, and the Brown Medical building, \$300,000. Churches were prominent in the list: St. Joseph, Mo., showing a \$146,000 church item; the First Baptist Church of Corsicana, Texas, \$85,000; the Rivermont Avenue Presbyterian Church of Lynchburg, \$85,000, and the Trinity Reformed Church of Concord, N. C., \$50,000. Two very large railway stations are in the list: the Chesapeake & Ohio station at Ashland, Ky., \$500,000, and the Norfolk & Western station at Bluefield, W. Va., \$246,000. The Central Union Trust Building, \$400,000, and the Webster Public School, \$240,000, gave Wheeling, W. Va., a big month. Other large permits include a library for Millsaps College, Jackson, Miss., \$100,000; a theater at Lakeland, Fla., \$100,000; the Pinellas Dairy Company, St. Petersburg, Fla., \$90,000; the San Angelo (Texas) Water, Light & Power Co., \$95,000.

Permits for principal cities follow: Washington, \$4,379,062; Baltimore, \$3,284,400; Louisville, \$3,000,235; St. Louis, \$2,783,960; Dallas, \$2,472,733; Kansas City, \$1,708,150; Fort Worth, \$1,575,599; Miami, \$1,426,529; Memphis, \$1,414,510; Birmingham, \$1,293,797; Atlanta, \$1,194,525; Houston, \$1,092,120; St. Petersburg, \$1,002,800; New Orleans, \$987,800; Wheeling, \$874,628; Tulsa, \$871,266; Ashland, \$630,700; Shreveport, \$630,330; West Palm Beach, \$503,770; Huntington, \$470,870; San Antonio, \$456,495; Knoxville, \$451,332; Oklahoma City, \$413,909.

Glorifying the Influence of Power.

An important purpose of the Power Show is to glorify power and its tremendous influence in advancing American civilization. The third National Exposition of Power and Mechanical Engineering, which is the official name for the Power Show, will be held from December 1 to 6, inclusive. Its stage will include 150,000 square feet in the three stories of the Grand Central Palace, New York city. Its entertainers will consist of 3200 representatives of over 300 exhibitors, well trained in their art and ready to dispense information to the 75,000 persons who are expected to view the display of machinery, worth many millions of dollars, that will be on view and partially in operation during the show.

The holding of the show at the same time as the annual gatherings of the American Society of Mechanical Engineers and the American Society of Refrigerating Engineers, and with the co-operation of the American Society of Heating and Ventilating Engineers and the National Association of Stationary Engineers, is designed to give an educational status to the event and to attract designing and constructing engineers and operating men who are fully aware of its significance.

The scope of the show is inclusive of the entire range

of power-producing, distributing and utilizing apparatus. Steam-generating devices with the auxiliary materials and apparatus will be shown in abundance. Prime movers will be represented. Metering equipment will occupy an important place on the stage. The using devices will include machine tools and transmission equipment, such as belting, bearings, couplings, etc. Also, a section of machine tools is being placed in the Exposition to meet the demands made by engineers at the past two expositions for this type of equipment.

The managers of the Power Show are Fred W. Payne and Charles F. Roth, with offices in the Grand Central Palace.

"Of Sinister Import to America."

[Leading editorial in New York Evening Post.]

The policy of coercion aimed at the United States by the League of Nations develops steadily. The Geneva arbitration protocol is aimed straight at America. This has received the approval of the League Disarmament Commission.

This report has a peculiar, even sinister, importance to the United States. It arrogates to the League certain of those super-powers that first aroused American distrust and fear of the League. Millions of Americans have believed these powers shadowy and vague. Stiffened by the League and sharpened by this "protocol," they seem anything but vague and shadowy.

It holds that non-member States, refusing to sign the protocols and rejecting the arbitral findings of the League, shall be forced to accept the League's decisions.

Should America, then, refuse to bow to a League now dominated by Anglo-French politicians, the League is obliged to apply "sanctions." This is a softer word than "blockade." It is more unctuous than "fleet concentration" or "troop mobilization." It is, as a word, far softer than "war," but it might mean just that.

These powers were kept in the background while America was being urged to enter the League, but are dragged forth now in the policy of coercion. Under them Geneva is not to be a world clearing-house of arbitration and justice. They make of the League a world policeman swinging the club European politics and Old World intrigues order swung.

In sum, if the United States refuses to join the League, now saturated with and ruled by European self-interest, it may be outlawed if it attempts to protect its own interest and attend to its own business.

Meanwhile, Great Britain's navy, for all Ramsay MacDonald's disclaimers, has been offered to do the League's sea policing. Japan is hopefully maneuvering to bring before the League such domestic questions as immigration. The European debtors of America are drawing together ready to act as a unit in presenting their claim for debt cancellation to America.

The new alignment of the Old World against the New is thus emphasized.

This is another of several maneuvers intended to force America into the League. The naked threat in the report cannot be hidden. It is aimed at a great Power that, following instinct rather than reason, stayed away from Geneva.

That League is no longer the body of idealism urged upon America. Its spirit has changed. In every day of its fifth assembly it has shown itself the creature of the politician. Such idealism as it has left is used to cloak designs that trace through the "Quai d'Orsay and Downing Street back to the Old Lady of Threadneedle Street."

Gentlemen at Geneva today are less concerned about disarmament and justice than about forcing America into the League. They are less concerned about that than about debt cancellation. Coercion to bring America to Geneva is the road Europe has chosen to cancellation.

The League is to be used as a bankruptcy court if we will cross the Atlantic. This is not the manner of League that America wants, regardless of what impressions Europe may have gained last summer.

It is a curious thing to see the change of Europe's attitude since the visits of some of our Cabinet members in Paris and London. While "unofficial," they have had strange sequels.

Perhaps it would be just as well, for both Europe and ourselves, for highly placed American executives to remain on this side of the Atlantic for a while. Misleading, even though "unofficial," representations may encourage unwise and even dangerous coercion.

Government Crop Estimates for October 1.

Among the forecasts and estimates of crop production by the Agricultural Department increases over the September forecasts are indicated for spring wheat, oats, barley, potatoes, flaxseed, pears, grain sorghums, dry beans, sugar beets, peanuts and hay. On the contrary, lower estimates and forecasts appear for corn, rice, the total and commercial apple crop, broomcorn, sorghum syrup, buckwheat, sweet potatoes, tobacco, grapes and cranberries.

The forecast of a corn crop of 2,459,000,000 bushels for the date of October 1 is 54,000,000 bushels less than that for September 1. This crop has not been able to recuperate from the adverse conditions of weather in the earlier part of the season and it entered the autumn with an unusual degree of immaturity. Frost has already caused much damage. Reports of a low condition of the corn crop continues to come from all parts of the country. Throughout the South "the poorest corn crop in years" is reported from many localities, but there are others where the usual production will be had. Much of the corn in the Northern states that will not develop for husking is good for silage, and many reports indicate that such corn will be so utilized where silos are available and especially where they are numerous. Owing to the immaturity of much of the crop and the large proportion of soft corn that is inevitable, the percentage of merchantable corn will be much below average.

The excellent crop of spring wheat is estimated at 266,000,000 bushels, or above the average of the last five years. The quality of the crop is 93.4 per cent of a high medium grade, comparing with a 10-year average of 83.8 per cent.

A large oat crop, estimated at 1,509,000,000 bushels, has resulted from weather that has been unfavorable to corn. This is one of the four largest crops of oats ever raised in this country, and its quality is above the average.

Potato production is above the average. The crop is forecast at 424,000,000 bushels, comparing with an average of 391,000,000 bushels and last year's crop of 412,000,000 bushels. This is a crop that has fared well under conditions that have been favorable to oats but unfavorable to corn.

Rice yields are below expectations in Louisiana, where the condition of the crop has been reduced by drouth and also by some use of salt water for flooding. A production of 32,300,000 bushels is estimated for the United States, or below the 1923 crop of 33,300,000 bushels, and the average of 42,300,000 bushels.

Tobacco production, estimated at 1,182,000,000 pounds, is below the average of 1,361,000,000 pounds, and much below the 1923 crop of 1,491,000,000 pounds. Various adverse weather conditions in the principal tobacco-producing regions somewhat reduced the yield per acre, and, besides, the acreage is considerably below that of last year.

Cultivated hay makes the large crop of 95,100,000 tons, or more than the average of 85,800,000 tons. Much of the abundance of hay is found where corn production is considerably below the average, and in such a situation hay may be fed more than usual. The oat crop, also, is abundant where corn is not and will be available as a substitute feed.

Over \$1,000,000 in Additional Drainage Contracts.

Cape Girardeau, Mo.—The following additional contracts have been awarded by the Little River Drainage District here—of which John H. Himmelberger is president of the board of supervisors—in connection with its big irrigation project in southeast Missouri: Contract No. 32, involving 5,352,000 cubic yards clearing and other work, was awarded to Oscar Koeftitzky, England, Ark., at \$784,000; Contract 37, 1,010,000 cubic yards, clearing and other work, J. D. Jones Construction Co., Chillicothe, Mo., \$104,000; Contracts 51 and

52, 1600 acres of clearing right of way, C. A. Tant, Portageville, Mo., \$104,300, and Contract 53, 345 acres of clearing right of way, awarded to Crumpecker & Adams, Morehouse, Mo., at \$16,000.

As previously reported in the MANUFACTURERS RECORD, contracts were awarded several weeks ago for work involving the expenditure of approximately \$1,600,000, making the total of contracts to date about \$2,600,000. The district embraces 500,000 acres of flat land, extending from the foothills of the Ozarks west of Cape Girardeau 90 miles south to the Arkansas state line. Construction work will be executed under the supervision of L. L. Hidinger, president of the Morgan Engineering Co. of Memphis, Tenn., who is the chief engineer for the district. The entire development will cost about \$6,000,000.

Secretary Hoover on Distribution.

Chicago, October 14—[Special.]—The National Industrial Advertisers' Association held its annual convention at the Edgewater Beach Hotel, October 13 and 14, with advertising and sales executives from all parts of the country gathered to discuss ways and means of cutting the cost of selling to industry. Among the speakers were J. R. Hopkins of the Chicago Belting Co., Julius S. Holl of Link Belt Co., Chicago; F. R. Davis of the General Electric Co., Schenectady, N. Y.; R. C. Beadle, International Combustion Engineering Corp., New York; P. L. Thomson, Western Electric Co., New York, and Bennett Chapple of the American Rolling Mill Co.

Secretary Hoover of the Department of Commerce sent a paper on "Elimination of Waste in Distribution," in which he said:

"Investigation into the problems confronting industry today develops the fact that, through pressure brought about during the war and the boom period following, industrial organizations had built up their plants and technical departments to a high degree of efficiency. When depression came the pressure of competition forced these same organizations to reduce production costs, but the distributive agencies seem to have been neglected. As a result, we have today too wide a spread between the cost of an article at the producing point and the cost to the consumer. This is unquestionably due to inefficiency and waste in selling, and our big problem today, therefore, is elimination of waste in distribution. No individual can prescribe a cure which will fit all industries, for each one has its own particular problem.

"The first thing which occurs to me is the necessity for closer observation of economic trends. Sales and advertising plans must, to some extent, be based upon past performances, but the sales or advertising managers are apt to overemphasize this and overlook general economic changes which might have a direct bearing on future sales policy. The slow changing, as well as the rapidly fluctuating, economic forces should be carefully watched.

"I would also like to stress the need for more intensive effort in selling. Very few producers have the capacity for selling the United States as a whole, but we find many of them trying to do this. Much effort is lost upon some territories, which, if properly studied, would fail to show possibilities sufficient to justify the expense of selling and advertising. A great many manufacturers would undoubtedly find that, by limiting their efforts to more circumscribed areas and intensifying their sales activities in such areas, they would not only reduce their selling costs, but would probably produce a larger volume of business. The study of individual sales areas is, therefore, of great importance to the sales and advertising departments.

"Another point I would like to emphasize is the broader use of statistics. They can be regarded as a business barometer, and could undoubtedly be employed to advantage by sales and advertising departments, as well as by the producing departments, especially in industries like those represented in your association, which are selling to the manufacturer.

"You, as advertising men, have a certain responsibility in helping to find a solution for this problem, because you are so intimately connected with the sales departments. Your program suggests that you recognize the importance of the subject and I feel sure that a discussion at your convention will suggest some means of constructive action toward thorough efficiency in sales advertising."

Tentative Sale of Alabama Company of Birmingham.

Announcement of a tentative agreement for the sale of the properties of the Alabama Company to the Sloss-Sheffield Steel & Iron Co. for a sum approximating \$4,000,000 was made last Monday following the signing of such articles in New York city last Saturday.

Under the terms of this memorandum, the MANUFACTURERS RECORD was officially informed, \$1,300,000 is to be paid in cash and the balance to be financed by notes protected by the customary liens and similar provisions.

Before the signing of these tentative terms, however, it was explained, negotiations between the two corporations had been discussed on a basis of full cash payment, and it is not considered positively assured that the Alabama Company directors and stockholders will ratify a sale on a settlement part in cash and part in securities.

The agreement as signed by President Edward N. Rich of the Alabama Company will be presented to the stockholders at a special meeting not later than November 15, without recommendation, but merely for their consideration and decision. Negotiations for the transaction have been under way about six months, but always, it was explained to the MANUFACTURERS RECORD, on a full cash payment basis.

Another condition for the consummation of the sale involves a satisfactory close of certain negotiations pending between the Sloss-Sheffield Company and another corporation, on properties and rights.

In the sale, it is said, are included all the properties of the Alabama Company, except about 10,000 tons of pig iron, accounts receivable, cash on hand and certain securities. These are described as valued at \$700,000. Outstanding bonds of the Alabama Company, running to \$1,775,000, will be assumed by the Sloss-Sheffield Company.

After holders of the first and second preferred stocks of the Alabama Company have received par and accrued interest on their holdings, the balance, after payment of Federal taxes and other charges, will be distributed among the common stockholders and is expected to net them between \$75 and \$80 a share.

Both companies operate in the Birmingham district, the Alabama Company having been the successor to the Alabama Consolidated Coal & Iron Co., which it purchased under decree in 1913. The original company was organized and financed chiefly in Baltimore. It is figured that Baltimore interests will receive about \$3,000,000 in the pending deal. Two-thirds of the directorate live in Baltimore, including President Rich, Joshua Levering, one of the vice-presidents, and W. O. Pierston, secretary and assistant treasurer.

Among the properties of the Alabama Company are two furnaces at Ironaton, Ala., and two at Gadsden, Ala.; four coal mines, producing about 1,500,000 tons a year; 915 coke ovens, 10,164 acres of ore lands in Georgia and Alabama, 36,185 acres of coal lands in Alabama, 14,577 acres of timber land in the same state, 320 acres of limestone quarry at Rock Springs, Ala., and 8833 acres of mineral lands in Alabama, together with a seven-mile railroad.

On conclusion of the sale, the Alabama Company is expected to be dissolved. Its first preferred cumulative stock at 7 per cent runs to \$600,000; second preferred, non-cumulative, 7 per cent, \$1,500,000; common stock, \$2,000,000; bonds, \$1,775,000.

In reply to a wire, Mr. J. W. McQueen, president of the Sloss-Sheffield Company, wires the MANUFACTURERS RECORD:

"As have not purchased any property and only investigating, impossible for me to give you any information at this time.

Suggest you see Mr. Rich, from whom you must have gotten the inkling."

The Birmingham correspondent of the MANUFACTURERS RECORD wired October 14:

"J. W. McQueen, president Sloss-Sheffield Steel & Iron Company, declined positively today on his return from East to say anything at all as to purchase of Alabama Company. Deal is consummated, so far as agreement memoranda is concerned, at \$4,500,000 price, payable \$1,250,000 cash, balance in future, depending on purchase needed adjacent properties."

Contract for \$650,000 Church at Dallas.

Dallas, Texas.—General contract has been awarded to the Bellows-Maclay Construction Co. of this city for the erection of the new \$650,000 building here for the First M. E. Church South. The structure will be 232 by 160 feet, two stories and basement, of steel and reinforced concrete construction, with gray face brick, terra cotta trim, green tile roof, Caen stone interior walls and ceilings, and walnut interior finish and seating.

Seating will be provided for more than 2500 people in the main auditorium and balcony, the former to measure 87 by 90 feet. The Sunday-school will be housed in a separate 4-story building to the right of the main auditorium and will be connected with it by a wide corridor. In this building there will be an assembly hall to seat 3500. On the main floor, and located between the main auditorium and Sunday-school building, there will be a roof garden, 60 by 102 feet, to be floored with tile and provided with a stage.

A gymnasium will be provided with a clear floor space, 40 by 64 feet, with balconies on either side to seat about 450. Locker and shower rooms will be located under the balconies. The R. H. Hunt Company of Dallas is the architect.

Ice Cream Manufacturers' Meeting.

New Orleans, October 11—[Special.]—An important event in the history of the Southern ice-cream industry will take place at New Orleans in November, when the Southern Association of Ice Cream Manufacturers and the National Association of Ice Cream Manufacturers will meet here for the first time they ever have met jointly.

The Southern association will meet November 14 and 15. The following day, Sunday, will be spent in welcoming to the city delegates to the national convention, which will be held November 17, 18 and 19. In connection with the Southern convention there will be an exposition of ice-cream manufacturing supplies, machinery and equipment under the auspices of the Dixie Flyers, the Southern organization of the firms manufacturing equipment for the ice-cream industry.

This will be the third time in the history of the industry that a national convention has been held in the South. Following the conventions, many delegates will make a cruise to the Panama Canal via Cuba. There will be at New Orleans in the neighborhood of 3000 ice-cream men of all parts of the country, according to National Association officials.

To Build 26-Mile Power Line.

Fayette, Ala.—Contract has been awarded by the Alabama Power Co., Birmingham, to the Dixie Construction Co. of that city for building a 26-mile power line from Coal Valley Pass to Fayette. The line is a continuation of the Warrior-Corona line from the Gorgas steam plant, and will be 44 K. V., built with long-leaf yellow-pine creosoted poles and galvanized hardware. It will connect Coal Valley Pass, Bankston, Berry and Fayette, and will furnish 450 K. V. A., distributed as follows: Fayette, 300; Berry, 75, and Bankston, 75 K. V. A.

NEWS AND VIEWS FROM OUR READERS

[Publication in this department of letters from our readers does not mean that we either approve or disapprove the views expressed. We believe in a full and frank discussion of the mighty questions of the hour, for only in this way can the truth be found. Therefore we often publish letters with which we do not agree.—Editor Manufacturers Record.]

How Southern Congressmen Sacrificed Their Own Section for Free-Trade Fetish.

J. E. BURLESON, Spruce Pine, N. C.

I feel as every other citizen of the South should feel regarding the tariff question. The South needs a protective tariff more than any other part of the United States, but still the whole United States needs it throughout every state in the Union. There are hundreds of men and women out of employment on account of the stand that our Senators and Congressmen have taken against a protective tariff.

During the Fordney-McCumber hearings on the tariff question the Senate Finance Committee, of which our Senator, F. M. Simmons, was the majority leader, I spoke to Chairman Penrose and some others of the committee, both Democrats and Republicans. Chairman Penrose told me especially that the matter of my asking would be left entirely to Senator Simmons and the North Carolina Representatives. Well, I felt pretty sure that Senator Simmons would help us out. But when the bill came up reported in the Senate, it came the same old Simmons-Underwood bill.

One day I was at the Senate chamber door during the discussion before the bill passed, and Senator Simmons came out and spoke to me in this language, knowing what I was wanting: "Mr. Burleson, if you get any raise in the tariff on mica, you will have to go to your Republican friends, as you have the Simmons-Underwood tariff bill." And he went away, giving no further statement. I went to the other Senator and Congressmen from North Carolina on this question, and their answer to me was: "You know that a protective tariff is against our platform and you can't get any help from us."

We were there with 14,000 petitions from Georgia and North Carolina. The answer to me concerning these petitions when I presented them was, "The people petitioned us when they voted for us." So, consequently, we got no tariff on the following mineral products and acids, mica, monazite, graphite and feldspar, to amount to anything, and practically no protection on tannic acid and the tanning products that come in from India and South America.

The mountains of the whole Southern states are covered up with chestnut trees which are now dying from blight and rotting in the woods, doing nobody any good; whereas, if we had a sufficient tariff on the tanning products that come in from abroad, the chestnut wood that is decaying in the mountains would all be utilized and every landowner would be reaping the benefit of getting his wood to market and getting a good price for it. During the war, this wood was bringing \$12 a cord; today, it is bringing \$5 a cord, and hard to sell at that.

Now, if these industries were properly protected by a tariff there would be thousands and thousands of people employed, getting the benefit of the money that today is going abroad to pay for these products; as it is, there are thousands of people out of employment, and the material is lying here doing nobody any good, because we cannot compete with the wages these foreign countries pay.

India's highest paid labor is from 20 to 25 cents a day. South Africa's wages are about the same. South and Central America's wages are 40 cents a day. Now, go to one of these men who are supporting the Democratic free-trade policy and ask him to work for these wages; you had as well spit

in his face. And still these very people are being misled by leaders of the Democratic party throughout the South, and are voting against their own interest. Except in a part of Florida and Louisiana, the Democratic party stands against protection. Now, we cannot expect any protection on Southern products so long as the voter is misled by these politicians. No voter should vote for any party that does not favor a tariff so as to equalize the cost abroad with the cost at home. The people here who are getting from \$2.50 to \$4 a day should consider—both men and women—that they are voting their wages away and their money away to go to a foreign country to pay foreign labor when they vote for men who stand for free trade, and are putting themselves out of employment here, which means "soup houses" and "bread rows."

Do the voters know that today the manufacturers of a foreign country are coming into America, buying the cotton, shipping it across the water, manufacturing it and sending it back to the United States and selling it for less money than the American mills can manufacture it for? They can do this because of their cheap labor; it enables them to manufacture it for half what it would cost to manufacture it here. Soon, if we don't get a sufficient tariff on manufactured cotton goods, there will be hundreds of our cotton mills in the South standing idle, while the foreigners will be manufacturing our cotton goods, both from our cotton grown here and from foreign cotton, and sending it back to us. Now, so long as the voters continue to vote for men like Mr. Weaver of the Tenth district of North Carolina, and Mr. Bulwinkle of the Ninth, and the whole Democratic outlay, unless they will pledge themselves to stand for a protective tariff for the industries of the United States, including the peanut grower and the beet and sugar-cane raisers, they will vote against their own interest. You should vote for no man unless he pledges himself to stand for a protective tariff, be he a Republican or Democrat. I would vote for a Democrat as quick as I would for a Republican if he stood for these principles, and until the voter does this we are going to have the same thing that we have had in the past—hard times, breaks in business and low wages.

Now, take the mica industry of the United States. There are hundreds of millions of dollars' worth of mica lying in the ground, benefiting nobody on account of not being protected. I am said to be the largest producer of mica in the United States, and for the last year, with the very richest mines in the United States, I have lost money operating them in trying to compete with the cheap foreign labor, which is impossible. I am paying my labor from \$3 to \$5 a day, and if there is not something done on the tariff I will be forced to close every mine I am operating.

The monazite industry was once one of the greatest industries in western North Carolina and South Carolina, and for years every farmer who had a branch running through his farm was getting rich by gathering the monazite sand and selling it. All at once they discovered large deposits of this sand in India and in South America. Consequently, the price went down to a point where it could not be mined in this country, and every person who was mining monazite in the United States had to close. And our Congressmen, being free-traders, suffered it to go on the free list, and by so doing damaged this country millions of dollars.

Are the people of the South going to continue to vote these

calamities upon themselves? It is to the interest of every voter to consider this and vote accordingly.

Every farmer who votes for free trade votes to lower the price of cotton, wheat, corn, tobacco, peanuts and all vegetable oils, and to lower the price of all beef cattle, hides and wool. And every man or woman who is working in the cotton or hosiery mills and votes for free-traders votes to lower their own wages and put themselves out of work. Of late years the South is seeing this, and the Southern Tariff Association has been organized, which organization is at work every day trying to show the people the benefit of a protective tariff.

Think about this and ask your Senators and Congressmen if they are going to stand for a protective tariff, and, if not, vote for the man who will stand for a protective tariff, regardless of politics.

[And to this the MANUFACTURERS RECORD says, Amen and Amen! Mr. Burleson has stated the whole case. The man who votes for any Congressman who will not "stand four square against all the winds that blow" is voting to close factories, to throw men out of employment, to destroy agricultural prosperity. The time has come for men and women to vote for prosperity, not for poverty.—Editor MANUFACTURERS RECORD.]

Would Add One Thing More.

C. T. POTTINGER, American Blower Co., Atlanta.

I have just read your splendid editorial on the front cover of the current issue of the MANUFACTURERS RECORD, October 2.

There is only one thing, in my opinion, that is to tell the South how it can measure up to its opportunity. I think the only way it can do this is to break away from the "Solid South" tradition, which has been as much of a handicap to this section as has the one-crop system of agriculture, and to vote for Coolidge and Dawes in the coming national election.

Otherwise, by voting for Davis, it means simply throwing away their vote, thereby aiding La Follette and hurting Coolidge to that extent.

Baltimore to Vote on \$21,500,000 of Loans—\$10,000,000 for Sewers and Disposal Plants.

Ordinances recently passed by the City Council of Baltimore and approved by the mayor, calling for the issuance of certificates of indebtedness of the municipal corporation to an aggregate of \$21,500,000, will be submitted to voters of the city on November 4. An ordinance numbered 233 provides for an issue not to exceed \$10,000,000 for the construction of additions and extensions to the sanitary sewerage and storm-water drainage systems, including the right to construct additional sewage-disposal plants, pumping plants, etc.

Ordinance 234 authorizes an issue not exceeding \$7,000,000 for street work, and abolishing grade crossings, while ordinance 235 provides for an issue not exceeding \$2,000,000 for a municipal office building. Ordinance 236 provides for an issue not exceeding \$1,500,000 for extensions to the underground conduit system and another ordinance provides \$1,000,000 for an art museum.

Plans for Waterworks at Cocoanut Grove.

Cocoanut Grove, Fla.—Plans for the new water works and distribution system for Cocoanut Grove have been prepared by the Main Engineering Co. of Daytona, Fla., and it is expected that the city will soon take definite action for beginning construction. A bond issue of \$200,000, voted in June, has been validated, and as soon as the bonds have been sold work will go forward. The city has purchased the water plant of the Cocoanut Grove Public Utilities Co. and will operate it until the new plant has been completed. Plans for this will permit future extensions as needed.

An Energetic County Spending \$4,000,000 on Highways Seeks to Attract Dairy Farmers and Others from Elsewhere.

Board of Commissioners,
Sumter County.

Sumter, S. C., September, 28.

Editor Manufacturers Record:

As you probably know, Sumter county is now engaged in completing an investment of \$4,000,000 in 130-odd miles of hard-surfaced roads, radiating from the county-seat in 10 directions to the county limits, and with the view to leaving no citizens of the county at a greater distance than five miles from one of these hard-surfaced roads. The last sections of this system of roads have been contracted for and will be laid during the next six or seven months.

In this, we feel that we have laid deep and strong and broad the foundation for the development of the county in a large way, but at the present time we have not the traffic on these roads that, from a strictly business standpoint, warrants their being. In other words, the saving to transportation and the vehicular traffic at present existing will not reimburse the county for the interest charges on the bonds and of maintenance and upkeep of these roads. The issuance of these bonds, of course, adds very materially to the taxation, and for the next few years the public will feel the pinch of this taxation very seriously, especially in view of the fact that we have the boll weevil with us.

The most encouraging source from which we can expect increase of traffic on these roads to a paying point is, I think, in the development of our dairying and trucking industry in the county. Our farmers, under stimulus of boll weevil, have been turning slowly but surely to this and will continue to do so, but this progress is slow and does not take care of our needs for revenue incident to the larger traffic on these roads.

We feel that, in addition to this internal development, we need a further development based upon the bringing in of farmers from the outside who are trained along the line of dairying and truck farming, and with this end in view we contemplate putting on a thorough and intensive advertising campaign setting forth further the advantages of the county and our transportation system of roads to farmers of the Northwest who may be inclined to move to other sections offering cheaper lands and more genial climate and longer growing seasons. We feel that the potential advantages of our county in this respect are great and need only to be adequately and truthfully exploited to realize their utilization. We are on the lookout for information as to the amount of money it will take to adequately advertise our advantages in this line and an outline of the best methods to pursue in putting on such a campaign.

We know that you are always interested in the advancement of the interests of the South, and have had experience along this line and are in position to give us valuable information. If you can outline a plan you can recommend and give us tentatively an estimate of cost of same, we will appreciate it very much.

D. M. BLANDING, Clerk to Board.

200-Room Dinkler Hotel for Miami.

Miami, Fla.—Plans for the erection of a 200-room hotel here are being considered by the Dinkler Hotel Corporation of Atlanta, Ga., Carling L. Dinkler, vice-president and general manager. Authority has been given Charles E. Neville, local representative of the Dinkler corporation, to begin negotiations at once for the construction of the building, it is said, and it is expected to have the hotel ready for occupancy for the season of 1925-26.

THE IRON AND STEEL SITUATION

Steel Production Heavier Than Preliminary Estimates.

Pittsburgh, Pa., October 13—[Special.]—Steel ingot production in September, now reported officially, proves to have been somewhat greater than indicated by trade reports during the month. This is not the first experience of this sort. Steel producers, being practical men, do not put their best foot forward when it comes to speaking of their operating rates, as there is close competition, and a mill having a good operating rate is likely to be suspected of price cutting.

The common estimates during September were that mills were operating at between 55 and 60 per cent. Ingot production now proves to have been 62.4 per cent of estimated capacity. The month's tonnage was about 2,814,996 tons, representing a daily rate of 108,269 tons. The rate was 11.1 per cent above the August rate and no less than 51 per cent above the rate in July, which was the low month since December, 1921. Before the war a 50 per cent increase in production in the course of six months would have been considered a very good gain, but on account of its large capacity the steel industry is now very flexible. An increase in buying is followed instantly by an increase in production, and vice versa.

Operations now are probably slightly above the September rate, or at close to 65 per cent. The average since the armistice has been about 66 per cent.

The Steel Corporation's unfilled obligations increased by 184,203 tons in September, against an increase of 102,505 tons in August, and decreases in the five preceding months. The increase did not represent a falling behind in deliveries, as the Corporation is easily able to make as prompt deliveries as are desired, but represented the booking of much steel which the buyers wanted for forward delivery, chiefly in three items—rails for 1925 delivery, freight-car material for periods of months, and tinplate for delivery over the fourth quarter. In these three lines the September bookings exceeded the shipments by more than the 184,203 tons, by which the total order book increased, indicating that some of the other lines had lighter bookings than shipments.

The Corporation's shipments in September were about 65 per cent of capacity, while the increase in unfilled obligations was 13 per cent of capacity, indicating that bookings were about 78 per cent, against about 59 per cent in August and about 31 per cent in May, the low month for bookings.

In the finished steel lines formerly sold on a "Pittsburgh-plus" basis prices are now pretty well settled throughout the country on new basings, represented by mill prices in the various districts. Some steel products had not been on the Pittsburgh-plus system, and some already had local basings. Bars, shapes and plates had had a Chicago base for three years. In every case in which a new basing has been established a reduction in delivered prices is involved, averaging perhaps \$2 to \$3 a ton; but as some commodities are not affected, and not all territory is affected, the average realized prices on all finished steel products are scarcely down more than a dollar a ton. As the market often swings several dollars a ton, the price changes are not in themselves of stupendous importance.

The importance of the change from the Pittsburgh basing system lies in the great dislocation of trade, not only of independent mills but of steel buyers, whose competitive positions are changed. There is a great deal of complaint among both producers and consumers. A common remark is that the Federal Trade Commission has given the United States Steel Corporation a great advantage over the independent steel producers.

There are many rumors of mergers contemplated among independents to meet the new situation, most of these being probably mere guesses. It seems that independents want to

preserve the national character of their sales, and if one cannot do this a merger of two or three may do so. To localize sales, which would reduce competition between independents, does not seem to meet with favor as a policy.

Business is rather brisk in merchant bars, merchant pipe, sheets and wire products involved in building and manufacturing. There is seasonal dullness in wire products for farm use, tinplate and oil country tubular goods.

Pig iron in local territory has been very dull, but with prices quite steady at former levels. In the East there has been a fair turnover.

Connellsville coke seems to have a slightly easier tone, but quotable prices are not changed.

Heavy melting steel scrap is off a dollar a ton in the week, with mills showing little interest. With the market at \$17 to \$17.50, as now quotable, it is about halfway between the low point of last May and the high point a month ago.

Iron and Steel Marking Time.

Birmingham, Ala., October 13—[Special.]—The demand for pig iron is not near as active as it was a month ago at this time. The aggregate business, however, is equal to the make in the Southern territory, and with melters asking for delivery on contracts more iron is being moved and the surplus stock is being cut into. Quotations are firm at \$18 per ton, No. 2 foundry, with the smaller interests still asking \$18.50.

Confidence is being aroused, as time passes, that an activity will spread throughout the country which will bring about a need for iron which will tax the delivery ability. The larger and steady melters of pig iron are announcing business in hand and in sight which warrants full capacity through the year, and are intimating that the coming year will be better than was 1924. What with iron already purchased, it is to be estimated that production can be maintained 60 days and longer, but with expectations of active operations through the winter, further buying will be a necessity.

Two blast furnaces are in readiness for the torch any minute it is decided to resume operation, and iron could be manufactured within 24 hours. Two other furnaces could be made ready within two weeks' time. Only one of the 23 blast furnaces in operation now can be considered as in need of repairing in the near future. Of the 23 furnaces in operation, only eight are on basic iron. The surplus stock will before long register less than 80,000 tons of foundry iron.

The steel situation has changed little since the turmoil over the Pittsburgh-plus decision on the part of the Federal Trade Commission and the answer of the Steel Corporation as to abiding by the decision. Announcement is made that negotiations for a site by Alliance (Ohio) parties for a steel-consuming plant, manufacturing tanks and kindred products have been completed and that a big plant is assured. This industry began its negotiations before the famous decision became known. Another industry in which steel is a factor is anticipated for this district, but a lower price for material did not participate in the reason for the coming to this section. A third steel project is coming here, provided local capital cares for preferred stock, but this project is far removed from certainty.

Wire and nail prices are said to have found a new base at Fairfield, part of the Birmingham district, the quotations about the same as those in Chicago.

Negotiations are pending for the purchase of the Alabama Company by the Sloss-Sheffield Steel & Iron Co. All high officials are in New York, it was authoritatively stated here today.

The coal-mining industry in Alabama is showing improve-

ment, the production being over 370,000 tons the week. The DeBardeleben Coal Corporation in the past week exported some coal to South America and this week has a cargo bound for Cuba. The domestic demand is picking up some, as the climate changes and the crop gathering times come around. The expectations are that for four to six months the coal production will show much activity. For the first nine months of the year the coal output in Alabama is estimated at 14,000,000 tons. Even with steady activity for the balance of the year it will be a million and more tons under the big production in 1923. Another purchase is announced by the Pratt Fuel Corporation, the Walter Moore interests, mining operations in Walker county being taken over and more than \$250,000 being involved in the deal. The Pratt Fuel Corporation is assuming greater proportions right along.

The coke market lags and quotations range from \$4.50 to \$5, with a little of the product bringing \$5.25. The production is being maintained right along.

The scrap market is somewhat quiet. Heavy melting steel quotations are weaker. The uncertainty of the steel market is given as the cause for this condition. No. 1 cast and stove plate still holds the front of the stage in old material, but the demand for these products is far from being exciting. Dealers have plenty of stock of old material on hand and can meet any demand.

Quotations for pig iron and iron and steel scrap in the Birmingham district are as follows:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$18.00 to \$18.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$18.50 to \$19.00; iron of 2.75 to 3.25 per cent silicon, \$19.00 to \$19.50; iron of 3.25 to 3.75 per cent silicon, \$19.50 to \$20.00; iron of 3.75 to 4.25 per cent silicon, \$20.00 to \$20.50; charcoal iron, f. o. b. furnaces, \$30.00.

OLD MATERIAL.

Old steel axles	\$17.00 to \$18.00
Old iron axles	19.00 to 19.50
Old steel rails	12.50 to 13.00
Heavy melting steel	12.00 to 12.50
No. 1 cast	14.00 to 15.00
Stove plate	13.50 to 14.00
No. 1 R. R. wrought	12.00 to 13.00
Old car wheels	14.00 to 15.00
Old tramcar wheels	14.00 to 16.00
Machine shop turnings	6.00 to 7.00
Cast-iron borings	7.00 to 8.00
Cast-iron borings (chem.)	15.00 to 16.00

Report on Steel Ingot Production.

Herewith is the monthly production of steel ingots from January, 1923, to September, 1924, as reported to the American Iron and Steel Institute, by companies which made 94.84 per cent of the steel ingot production in 1923:

Months, 1923	Open-hearth	Bessemer	All other	Monthly production companies reporting	Calculated monthly production all companies	No. of working days	Approximate daily production all companies, Gross tons
Jan.	2,906,892	728,270	9,467	3,644,629	3,841,095	27	142,263
Feb.	2,613,564	669,903	10,797	3,294,264	3,471,843	24	144,660
March	3,046,309	799,525	12,841	3,858,675	4,066,680	27	150,618
April	2,974,579	772,485	13,933	3,760,997	3,963,736	25	158,549
May	3,136,558	847,418	16,719	4,000,695	4,216,355	27	156,161
June	2,821,239	737,845	15,483	3,574,567	3,767,256	26	144,894
July	2,658,449	680,884	11,496	3,350,829	3,531,478	25	141,258
August	2,799,370	701,079	9,326	3,506,755	3,695,788	27	136,881
Sept.	2,562,771	613,709	8,602	3,185,082	3,376,776	25	134,271
9 months. 25	25,516,731	6,551,098	108,664	32,176,493	33,910,987	233	145,541
Oct.	2,735,513	649,432	9,163	3,394,128	3,577,091	27	132,485
Nov.	2,348,361	616,335	9,309	2,974,005	3,134,321	26	120,551
Dec.	2,131,898	570,004	10,912	2,716,814	2,863,266	25	114,531
Total	32,736,503	8,386,889	138,048	41,261,440	43,485,665	311	139,825
1924							
Jan.	2,766,534	667,032	12,577	3,446,143	3,633,639	27	134,579
Feb.	2,902,611	695,905	14,085	3,612,631	3,809,185	25	152,367
March	3,249,783	706,801	15,260	3,971,844	4,187,942	26	161,075
April	2,575,788	573,381	12,356	3,161,525	3,333,535	26	128,213
May	2,660,896	425,099	6,648	2,492,643	2,628,261	27	97,343
June	1,637,060	310,070	2,622	1,970,352	2,076,466	25	82,239
July	1,725,912	241,880	5,162	1,772,954	1,869,416	26	71,901
August	2,012,870	361,781	5,759	2,410,360	2,541,501	26	97,770
Sept.	2,232,976	409,922	6,844	2,689,742	2,814,996	26	108,269
9 months. 21	21,015,010	4,391,871	81,313	25,488,194	26,874,941	234	114,850

RAILROADS

Five High Records in Freight Traffic.

Washington, D. C.—The American Railway Association reports that five new high records were made during the week ended September 27 in loadings of revenue freight on the railroads. The total number of cars so loaded was 1,087,447, the largest number for one week this year, besides being 10,894 more than the previous week, and only about 10,000 cars less than the highest record which was made during the corresponding week of last year. Moreover, more cars were loaded with grain and grain products, with miscellaneous freight and with merchandise and less than carload lot freight than for any other week ever recorded. Besides, more freight cars were moved by the railroads on Wednesday, September 24, than on any other day this year, the total for the day being 1,013,184, this including both loaded and empty cars.

The new high record in loadings of grain and grain products was due principally to the fact that shipments in the Northwest during September exceeded all former records, including those of 1915, when the North Dakota wheat crop totaled 150,000,000 bushels and the crop of the whole country was over 1,000,000,000 bushels. Notwithstanding the extremely heavy shipments, the movement of grain and grain products thus far has been accomplished without any car shortage.

Total loadings of revenue freight since January 1 last have been more than 35,700,000 carloads.

Concerning the remarkably large grain traffic the Railway Age says: "In the seven weeks ended on September 27 the total number of carloads of grain and grain products moved exceeded 460,000 cars. This was 121,500 more than in the corresponding weeks of 1919, when the railways were under Government operation; 157,000 more than in 1920, 61,000 more than in 1921, 84,000 more than in 1922 and 87,000 more than in 1923."

New Equipment.

Southern Railway has ordered fifty engines from the American Locomotive Co., the contract including 25 Mikado type, 15 Pacific type and 10 eight-wheel switching locomotives.

Pennsylvania Railroad will purchase 10,000 freight cars, costing about \$21,000,000, having asked authority of the Interstate Commerce Commission to issue \$15,750,000 of 4½ per cent equipment trust certificates, as 25 per cent of the purchase price is to be paid in cash.

New York Central Lines will purchase 18 freight engines, 15 passenger engines, 25 switching engines, 40 steel passenger cars, 50 passenger cars for suburban service, 23 combination passenger and baggage cars, 40 straight baggage cars, 27 dining cars, 3200 box cars, 4100 hopper cars, 240 refrigerator cars and 28 horse cars. In connection with this equipment plan the company has been authorized by the Interstate Commerce Commission to issue about \$21,000,000 of equipment trust certificates.

A Mississippi Short Line Project.

According to a press report from Jackson, Miss., permission to organize the Mississippi-Alabama Central Railway Co. has been given in an executive order issued by Governor H. L. Whitfield, the organizers being M. D. L. Spearman, Paul D. P. Spearman and Dr. J. H. Stone. The line will be about 25 miles long from Tremont, Miss., to Sulligent, Ala., which is on the line of the Frisco System, and it is to be completed within two years. Headquarters are at Tremont, in Itawamba county, which is now without railroad facilities. Timber land will probably be developed.

Missouri Pacific Road Developing Agriculture.

St. Louis—As a result of meetings held at California, Mo., and Washington, Mo., recently, under auspices of the agricultural development department of the Missouri Pacific Railroad Company, three, and possibly four, carloads of purebred Jersey and Holstein dairy cattle will be shipped there and distributed to farmers within the next few weeks.

Demonstrations are being conducted by leading farmers in the territory surrounding Oakdale, Tioga and Columbia, La., in conjunction with the agricultural department of this railroad company, to demonstrate the value of sweet clover as a cover crop, to be plowed under and followed by Irish potatoes. The territory surrounding Oakdale is rapidly coming to the front as a truck center. Approximately 250 acres will be planted to cabbage there next spring, and 1200 pounds of radish seed have been ordered. Carrots and Irish potatoes and tomatoes also are being advocated by the truck growers' associations.

To demonstrate the value of limestone as a fertilizer, especially in growing legume crops for dairy feed, the department is arranging for a number of two-acre demonstration plots in Moniteau county, Missouri. One acre in each plot will be limed. It is planned to hold meetings of farmers on the various plots next season to show the difference between the crops on the limed and unlimed sections of the plots.

Contract Let for Stations.

The Florida Western & Northern Railway Co., which is building the extension of the Seaboard Air Line in Florida, has awarded a contract to the Elliott Building Company, Incorporated, Hickory, N. C., to build freight and passenger stations on this line from Coleman to West Palm Beach, Fla., the work under the contract covering a combination depot at Center Hill, another at Auburndale and a third at Okeechobee; a passenger depot at Winter Haven, another at Lake Wales, another at Avon Park and a fourth at Sebring; also a freight depot at Winter Haven, another at Avon Park and a third at Sebring. The aggregate value of the contract is over \$200,000. Tile and terrazzo flooring, plumbing, roofing, electrical work, plaster and stucco will be used in the construction, besides hollow tile, roofing tile and cement.

Big Records of Peach Crop Movement.

Atlanta, Ga.—During the peach crop movement this year the Southern Railway Company broke all records in handling peaches shipped from the South to markets in the East and the central West. The total number of cars moved laden with peaches was 7433, of which 6014 were from Georgia alone, as compared with 5700 last year, which had the previous high record for peach shipments from this state. The company ran 256 special peach trains out of Atlanta, of which 129 went to Potomac Yards, Washington, and 127 to Cincinnati. There were 58 of the trains to Washington which ran on the new fast schedule, giving 24 hours earlier delivery to Eastern markets. There were also handled 587 cars of peaches from the sand hills section of North Carolina, 566 from Tennessee, 171 from Virginia and 95 from other states.

Belt Line to Be Completed.

Tex., Dallas.—Bids for the construction of 9 miles, to complete 12-mile belt line east of Dallas, have been requested by the Southern Pacific Company, according to George H. Lawrence, special engineer, Houston, Texas. The cost of the entire work, which will include elimination of all grade crossings, will be about \$600,000. Bids will close at Houston October 22 at 9 o'clock A. M.

TEXTILE

Arkansas Textile Company Organized With \$400,000 Capital—Will Build Spinning Mill of 10,000 Spindles, Also Knitting Mill.

Pine Bluff, Ark., October 16—[Special.]—The Arkansas Textile Co., organized with a capital of \$400,000, will erect and operate in Pine Bluff the first knitting mill to be established in the Southwest, the entire plant to be the largest in Arkansas and one of the largest in the Southwest. Of the total capital, \$275,000 is paid up; a site for the plant has been selected and machinery purchased. The spinning mill will have 10,000 spindles and the knitting mill will have a capacity of 500 dozen garments per day. Employment will be given to 300 people in the manufacture of knitted undergarments, union suits for men, women and children and knitted cloth. The plant will be ready to start January 1, 1925.

This mill is the first to be attracted to Pine Bluff and south Arkansas through the development of hydro-electric power on the Ouachita River by the Arkansas Light & Power Co., and is expected to mark the beginning of extensive textile-manufacturing operations here, where cotton and labor are available in almost unlimited quantity and where hydro-electric power may be obtained. Jefferson county, of which Pine Bluff is the capital, produces from 50,000 to 60,000 bales of Arkansas' annual production of from 800,000 to 1,000,000 bales.

Of the paid-up capital, \$150,000 was subscribed by Pine Bluff business men, and \$125,000 by Leroy A. Beers, Clarence D. Stewart and associates of Amsterdam, N. Y. Offices of the company are: President, Capt. William Nichol; first vice-president, C. D. Stewart, Amsterdam, N. Y.; second vice-president, L. W. Quattlebaum; treasurer and general manager, Leroy A. Beers, formerly of Amsterdam, N. Y.; secretary and assistant treasurer, J. E. Boyce.

Textile Firms Considering \$5,000,000 Merger.

Griffin, Ga.—According to a recent announcement the Lowell Bleachery of Lowell, Mass., operating finishing plants at Lowell, St. Louis and Griffin, with the Farnsworth-Hoyt Company, Kallman-Newcomb Company and W. H. Holbrook Company, all of Boston, Mass.; the W. H. Lippincott Company of Philadelphia and the Selzer-Ballantyne Company of Cincinnati, are working on details for a consolidation into a \$5,000,000 corporation. It is said to be the purpose of these interests to organize the National Fabric & Finishing Co., with its main office at Lincoln and Essex streets, Boston, and branch offices in New York, Philadelphia, Cincinnati, Chicago and St. Louis.

Except the Lowell Bleachery, the interested firms have furnished manufacturers with shoe linings and khaki cloth, beside supplying the clothing, publishing and glove trades. It is expected that these lines will be extended and others developed by the new organization.

Addition to Underwear Plant Near Completion.

Greenville, S. C.—The new addition to the underwear plant being erected here by the Nuckasee Manufacturing Co., F. W. Symmes, president, and J. D. Smeak, secretary, has practically been completed. Erected at a cost of \$35,000, the building is two stories, brick, with concrete foundation, maple floors and gravel roof. J. E. Serrine & Co. are the engineers, and the Fiske-Carter Co., contractor, both of Greenville.

The company is capitalized at \$200,000 and produces athletic underwear, having a daily output of 550 dozen.

GOOD ROADS AND STREETS

West Virginia County Asks Bids on 18 Miles.

Clarksburg, W. Va.—Harrison county plans to build 18 miles of bituminous macadam embraced in five projects, bids to be received by the County Court at its office in this city until October 28. Plans and specifications for the work may be seen at the office of the county road engineer at Clarksburg.

Glades County to Build 71 Miles.

Moore Haven, Fla.—Glades County Board of Commissioners, L. M. Allen, chairman, will receive bids until October 25 for road construction in the county covering approximately 71 miles. The work is embraced in six projects and will be done in accordance with plans and specifications on file in the office of the Clerk of Circuit Court at Moore Haven.

North Carolina to Let 14 Road Projects.

Raleigh, N. C.—Contracts for fourteen road projects will probably be awarded by the North Carolina State Highway Commission on November 12, covering more than 90 miles. Tentative plans call for the construction of 60.5 miles of grading and bridges and 29.21 miles of paving, embraced in 12 projects, in addition to four jobs in the fourth district.

17 Miles of Gravel Road in Russell County.

Seale, Ala.—Sealed bids will be received until November 5 by the State Highway Commission, Montgomery, for the construction of 17.85 miles of gravel road in Russell county, extending from Hurtsboro to Seale. Plans and specifications are on file at the office of the commission and additional information may be obtained from the office of W. S. Keller, state highway engineer, Montgomery.

To Build 15 Miles in Wichita County.

Wichita Falls, Texas.—Sealed bids will be received until October 27 by E. P. Walsh, auditor for Wichita county, with offices in this city, for the construction of fifteen miles of the Electra-K. M. A. road in Wichita county. Work will consist of gravel, macadam and bituminous surfacing. Detailed plans and specifications may be seen at the office of J. M. Isbell, county engineer, Wichita Falls, from whom information may be obtained.

\$202,000 Contract in Houston County.

Crockett, Texas.—Contract has been awarded by the Houston County Commissioners to Smith Bros., Dallas, Texas, at \$202,000 for building seven miles of concrete road on state highway No. 21, extending from West Crockett, and at \$16,000 for the completion of the present highway to Clapp's Ferry, on the Trinity River, where a \$250,000 bridge will be constructed by Houston and Madison counties. Gravel will be used for the completion of the road.

Alabama Wants Bids on Five Miles.

Moulton, Ala.—Bids will be received by the State Highway Commission, Montgomery, Ala., until October 29 for the construction of five miles of the Cheatham road in Lawrence county, work to cover grading and drainage of the entire mileage and surfacing two miles with macadam. Plans and specifications are on file in the office of the State Highway Commission and at the office of the division engineer at Birmingham. Additional information may be secured from W. S. Keller, state highway engineer, Montgomery.

Notes on Good Road Construction.

Hinds County Commissioners, Jackson, Miss., will vote October 20 on a bond issue of \$2,000,000 for the construction of roads.

The city of Clearwater, Fla., has voted a bond issue of \$1,000,000 to construct a free causeway 100 feet wide across Clearwater Bay to the beach, replacing a wooden toll bridge.

The Mississippi State Highway Department, Jackson, has awarded contract at \$113,000 to S. A. Gano, New Orleans, La., for the construction of four miles of road near Belzoni, Miss.

Arlington District Good Roads Commission, Fort Myers Heights, Va., has adopted a road-building program calling for the construction of 20 miles of road to cost approximately \$700,000.

Bexar County Commissioners, San Antonio, Texas, have awarded contract at \$110,610 to Colglazier & Hoff, San Antonio, for the construction of 8.16 miles of asphalt road extending from San Antonio to Converse.

The South Carolina State Highway Department, Columbia, has awarded contracts for surfacing 20 miles of road from Barnwell to Ellenton, and 11 miles from a point near Ellenton to the Allendale-Barnwell county line, both in Barnwell county, at a total cost of \$215,000.

The State Road Department, Tallahassee, Fla., has awarded contract at \$324,075 to W. P. McDonald Construction Co., Lakeland, Fla., for the construction of ten miles of highway between Lowell and Ocala, construction to be of sheet asphalt surface on a lime-rock base.

Bowie county, O. B. Pirkey, judge, New Boston, Texas, will receive bids until October 28 for road improvements, for which detailed plans and specifications may be obtained from the office of F. E. Hess, county engineer, New Boston, and from the office of the state highway department at Austin.

Proposals addressed to W. T. Lockwood, auditor McLennan county, Waco, Texas, will be received until October 22 for road and bridge construction in the county, for which plans and specifications may be seen at the office of Manton Hannah, county engineer, Waco, and at the office of the state highway department at Austin.

\$110,000,000 Utilities Corporation Would Incorporate in Maryland.

A certificate of incorporation has been filed with the State Tax Commission of Maryland by the International Utilities Corporation, through Emory, Beeuwkes & Skeen of Baltimore, attorneys and resident agents for the corporation, which is said to be a holding company with a capitalization of \$110,000,000. As set forth in papers of incorporation, the company proposes to acquire and hold securities of electric light and power companies, artificial and natural-gas companies, street and interurban railway companies, and other public utilities companies, as well as to acquire, construct, hold, maintain, operate, lease, sell or otherwise dispose of transmission lines and utility plants.

The certificate of incorporation notes that the corporation will conduct business in Maryland, the District of Columbia and other states and territories of the United States and in foreign countries, observing at the same time that nothing in it shall be deemed to authorize it to carry on any public-utility business in Maryland. William H. Hall, Max N. Hammerling and Ralph P. Buell of New York are subscribers of the certificate of incorporation.

LUMBER AND BUILDING MATERIALS

Decline in Lumber Movement.

Washington, October 9.—The national lumber movement for the week ending October 4, as indicated by telegraphic reports from 353 of the chief commercial softwood lumber mills of the country, indicates a decrease in all three factors of production, shipments and new business compared with the previous week, says the National Lumber Manufacturers' Association. These decreases are also noticeable in comparison with the corresponding week of 1923.

The unfilled orders of 245 Southern Pine and West Coast mills at the end of last week amounted to 564,381,121 feet, as against 588,674,620 feet for 245 mills the previous week. The 124 Southern Pine mills in this combination showed unfilled orders of 223,468,200 feet at the end of last week and 231,837,555 feet for 124 mills for the preceding week. For 121 West Coast mills the unfilled orders were 340,912,921 feet, as against 356,837,065 feet for 121 mills a week earlier.

Of the 353 comparably reporting mills, last week's shipments were 100 per cent and orders 88 per cent of actual production. For the Southern Pine mills by themselves these percentages were 106 and 95 per cent, respectively, and for the West Coast group 98 and 84.

Of the foregoing mills, 329 have a determined normal production for the week of 214,655,040 feet, according to which actual production was 102 per cent, shipments 101 per cent and orders 89 per cent of normal production.

The following table compares the national lumber movement as reflected by the comparably reporting mills of seven regional associations for the three weeks indicated:

	Past week.	Corresponding week 1923.	Preceding week 1924 (revised).
Mills	353	290	377
Production	231,221,433	256,787,457	241,538,795
Shipments	230,745,867	236,334,093	241,352,936
Orders (new business)	202,560,057	246,075,162	231,619,161

The following figures compare the reported lumber movement for the first forty weeks of 1924 with the same period of 1923:

	Production.	Shipments.	Orders.
1924	9,369,718,776	9,283,615,000	8,983,923,859
1923	9,803,753,944	9,798,049,918	9,319,563,773
1924 Decrease	434,035,168	514,434,368	335,639,914

LUMBER MOVEMENT FOR FORTY WEEKS, AND FOR THE WEEK ENDING OCTOBER 4.

	Production		Shipments		Orders	
	1924	1923	1924	1923	1924	1923
Southern Pine Association:						
Week (125 mills).....	3,135,079,959	3,074,871,285	3,133,495,335	3,132,606,493	3,050,560,134	2,989,988,158
Total	71,260,417	76,210,066	75,752,295	74,817,054	67,382,940	71,166,927
West Coast Lumbermen's Association:						
Total	3,704,321,176	4,013,023,501	3,876,605,477	4,219,534,420	3,753,592,655	4,091,490,126
Week (121 mills).....	105,001,683	113,203,158	102,991,668	106,660,661	88,439,917	119,181,963
Western Pine Manufacturers Ass'n:						
Total	1,238,887,000†	1,356,211,000†	1,145,657,000†	1,185,696,000†	1,118,050,000	1,106,141,000†
Week (36 mills).....	29,193,000	31,815,000†	25,504,000	26,141,000†	24,275,000	27,175,000†
California Redwood Association:						
Total	342,054,000	356,022,000	274,368,000	353,827,000	271,582,000	345,509,000
Week (15 mills).....	8,212,000	10,727,000	5,829,000	6,970,000	6,340,000	7,955,000
North Carolina Pine Association:						
Total	300,003,741	351,756,232	298,752,238	361,676,096	264,148,070	291,342,589
Week (33 mills).....	5,306,633	8,653,733	5,710,904	7,591,278	5,016,200	7,902,272
Northern Hemlock and Hardwood:						
(Softwood) Total	114,057,000	103,456,000	92,990,000	101,109,000	73,569,000	88,378,000
Week (15 mills).....	3,248,000	1,928,000	1,889,000	1,506,000	812,000	1,349,000
Northern Pine Manufacturers Ass'n:						
Total	374,636,900	436,950,926	338,763,500	321,019,909	341,508,000	207,893,900
Week (9 mills).....	7,892,700	12,198,500	10,324,000	9,025,100	8,357,000	7,687,000
General total for 40 weeks:						
(Softwood)	9,209,039,776	9,692,290,944	9,160,631,550	9,675,468,918	8,873,009,859	9,210,742,773
Northern Hemlock and Hardwood:						
(Hardwood) (40 weeks).....	160,679,000	111,463,000	122,984,000	122,581,000	110,914,000	108,821,000
California White and Sugar Pine:						
Total	797,752,000*	.....	628,716,000	.....	.....	.....
Week (12 mills).....	15,534,000	.....	12,246,000	.....	7,973,000	.....
General total for week.....	231,221,433	256,787,457	230,745,867	236,334,093	202,560,057	246,075,162

*Revised figures for 40 weeks; not included in general totals. Represents about 69% of cut of region.

†Revised.

Twelve mills of the California White and Sugar Pine Association reported a cut of 15,534,000 feet last week, shipments 12,246,000 and orders 7,973,000. The reported cut represents 32 per cent of the total of the California Pine region.

The West Coast Lumbermen's Association wires from Seattle that new business for the 121 mills reporting was 16 per cent below production and 15 per cent below shipments.

The Southern Pine Association reports from New Orleans that for the 124 mills reporting for the week shipments were 6.30 per cent above production, current orders 5.44 per cent below production and 11.05 per cent below shipments. Of the 81 mills reporting running time, 65 were on full time, 1 was shut down and the rest operated from one to five days.

The Western Pine Manufacturers' Association of Portland, Ore., reports small decreases in production and shipments and a good gain in new business. Compared with the preceding week, identical mills show an increase of 23 per cent in new business, 10 per cent decrease in shipments and 7 per cent decrease in production.

The California Redwood Association of San Francisco reports a fair gain in production and new business, and a noticeable decrease in shipments.

The North Carolina Pine Association of Norfolk, Va., reports marked decreases in all three factors, due probably to the fact that 7 fewer mills reported this week than for last.

The Northern Hemlock and Hardwood Manufacturers' Association of Oshkosh, Wis. (in its softwood production), reports a considerable falling off in production, a slight decrease in shipments, while new business showed a decided decrease.

The Northern Pine Manufacturers' Association of Minneapolis reports a noticeable decrease in production, and slight gains in shipments and new business. Eight mills operated last week, one having finished the season's cut.

Forest Service Studying Appalachian Woodlands.

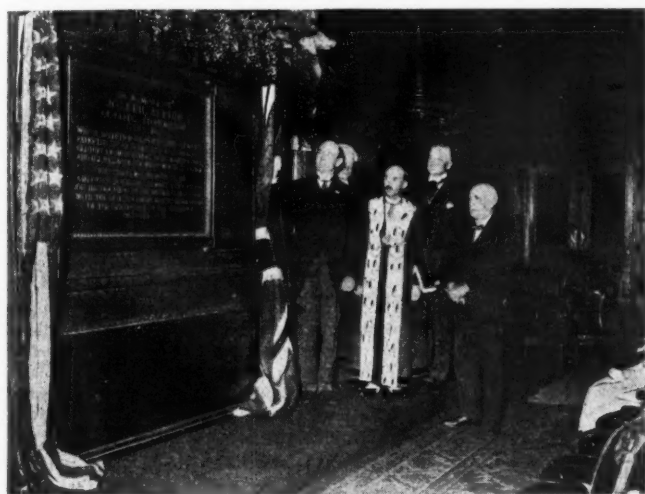
Asheville, N. C.—Forest research in the Appalachian region falls into four main lines of study and experiment, stated Director E. H. Frothingham of the Appalachian Forest Experiment Station recently in explaining the work of this

outdoor laboratory of the Forest Service, United States Department of Agriculture. These are: how the forest will reproduce itself, how to protect it against fire and other destructive agencies, how fast it grows, and how to so manage the forest as to obtain profitable returns. "From a forestry point of view," Mr. Frothingham said, "the Appalachians contain some of the most complicated problems to be found anywhere in the country. There are forty or forty-five kinds of trees of present commercial importance, and nearly as many others to be ranked as 'weeds.' The forests have mostly been cut over one or more times, and fire has burned over a large part of the land, so that every conceivable sort of condition is presented."

A great deal of the experimental work necessary to solve these intricate problems, according to Mr. Frothingham, is carried out by means of sample plots, or relatively small areas laid out and marked for study through successive seasons, usually placed where the average run of different conditions in any one locality will be encountered. These are the equivalent of the bottled "specimens" in an indoor laboratory; on some Nature's own processes are observed, on others the experiment-station men give the plot a specified treatment and then watch Nature's reaction or recovery. The effects of fire, thinning, different degrees of forest cutting, seed sowing, planting of small trees, as well as the relative merits of different tree species, are tested in this manner. The results, painstakingly observed, chronicled and later tabulated, go to build up the store of scientific knowledge that will make possible the most effective reforestation of this region.

Centennial Anniversary of Invention of Portland Cement Celebrated.

One of the most interesting features of the meeting of the American Portland Cement Association and the British Cement Makers' Federation at Leeds, England, in September, is said by American participants in the session to have been the unveiling of a bronze memorial tablet presented to Leeds



CEMENT MAKERS UNVEIL ASPDIN TABLET.

in honor of Joseph Aspdin, who obtained the first patent on Portland cement 100 years ago. The tablet was placed in the Town Hall.

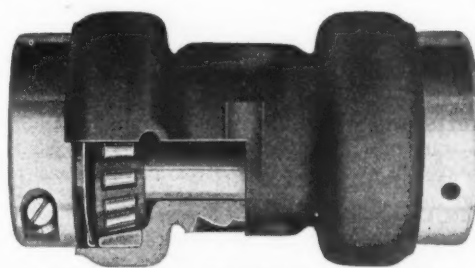
Associated in the ceremony with President Frederick W. Kelley of the American Portland Cement Association, who performed the actual unveiling, were Sir Robert Fox, town clerk of Leeds; Sir Edwin Airey, Lord Mayor of Leeds; P. M. Stewart, chairman of the British Cement Makers' Federation, and F. T. Halford, vice-president of that organization.

In the accompanying illustration these men are shown in order from left to right.

MECHANICAL

Improved Line-Shaft Bearing.

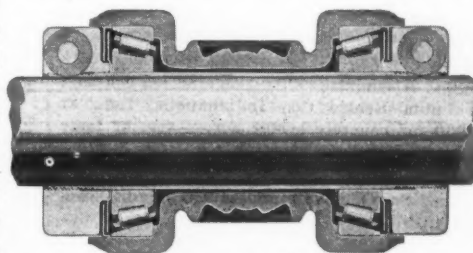
A new line-shaft bearing, embodying the Timken roller bearing, as well as several other novel features of construction, and which is illustrated herewith, is being introduced on the market, as a result of many years' development and investigation, by the Dodge Manufacturing Corporation, Mishawaka, Ind. It is called the Dodge-Timken Roller Hanger Bearing, and it is beautifully simple; there are only five parts to the complete assembly. It consists of two tapered



PART VIEW OF INTERIOR OF BEARING.

roller bearings mounted on a ground and slotted steel tube and fitted to an accurately machined housing. The ends of the tube are threaded to receive clamping collars designed to secure accurate adjustment of the bearings on the tube; but as this adjustment is made at the factory, it need not be altered.

Inasmuch as special requirements must be observed in the construction of any appliance used in transmitting power such as strength, simplicity, interchangeability and efficient lubrication, the manufacturers have seen to it in this design that all these were fully regarded. The mounting of the bearings insures their full use for both radial and thrust loads, besides adding to the ruggedness of the assembly, and it is of particular value in resisting the side



CROSS SECTION OF BEARING.

weave of heavy driving belts. The method of fastening the steel tube or sleeve to the shaft permits it to be used on any commercial shafting. The dustproof feature of the bearing is of great importance. The outer ends are protected against dust by special metallic grease seals which eliminate friction and positively prevent dust working in or lubricant from working out.

The erection of this new line-shaft bearing is very simple; it is only necessary to slip the bearing over the shaft and set up the clamping screw in each of the split clamping collars.

New Steamer Line from New York to Miami.

Miami, Fla.—Arrangements have been made by the Clyde Steamship Co. of New York to establish a new service between New York and this city, beginning the latter part of November. Two steamers will be assigned to the Miami line, it is stated, sailing from New York and Miami simultaneously each Wednesday, the northbound steamer calling at Jacksonville and the southbound vessel at Charleston. Freight service will be handled in connection with the passenger traffic, and provision will be made for carrying more than 100 automobiles at one time, in addition to the regular freight cargo. Each vessel will accommodate about 200 passengers.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.
An asterisk (*) following an item indicates that the enterprise has been reported in a preceding issue.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Airplane Plants, Stations, Etc.

D. C. Washington—Construction Quartermaster, Room 2323 Munitions Bldg., will receive bids Oct. 20 to erect one steel hangar, 110 x 200-ft. at Bolling Field.

Bridges, Culverts and Viaducts

Ala., Birmingham—City Comm. plans building concrete bridge over upper reaches of Fourteenth St.; A. J. Hawkins, City Engr.

Ala., Mobile—Mobile County Comms. plan building concrete bridge over upper reaches of Mobile Bay, connecting Mobile and Baldwin Counties; will vote in Nov. on bonds.

Ala., Troy—State Highway Comm., Montgomery, will receive bids Nov. 12 to paint and repair bridge over Conecuh River, near Troy, Pike County, 15,600 lbs. reinforcing steel in abutments; plans, etc. on file; W. S. Keller, State Highway Engr.

Ala., Wetlowe—Details under Road and Street Construction.

Fla., Dade City—Details under Road and Street Construction.

Fla., Fort Lauderdale—Broward County Comms. let contract to Champion Bridge Co. at \$17,800 for bridge over cut-off canal on Ravenswood road.

Fla., Kissimmee—City Comms. let contract to Luten Bridge Co., Indianapolis, Ind., at \$5350 for concrete bridge across arm of Lake Tohopekaliga, on Neptune road, 30-ft. clear span, and 20-ft. clear roadway.*

Fla., Sarasota—Details under Land Developments.

Fla., Tampa—Dr. B. M. Moodie, 725 S. Brevard Ave., will build bridges in connection with 117 acre development; McElroy Engineering Co., Giddens Bldg., Tampa.

Fla., Tampa—Details under Miscellaneous Construction.

Fla., West Palm Beach—City Comm. contemplates constructing 2250-ft. causeway across Lake Worth at Southern Blvd., cost \$125,000; also extending Southern Blvd. from Dixie Highway to Military Trail, cost \$125,000.

Ga., Cordele — Crisp and Worth Counties Comms. will receive bids Nov. 3 for bridge over Swift Creek, concrete or steel with concrete abutments. Lately noted bids Oct. 6.

Miss., Hattiesburg—Forrest County Board of Supvs. let contract to A. L. Dickson, Jackson, Miss., at \$22,778, for concrete bridge over Black Creek at Brooklyn.*

Mo., Kansas City—A. J. Stewart, Purchasing Agent of Kansas City, Mo., office City Hall, will receive bids Oct. 23 to furnish labor and materials to build single track, steel girder plate railroad bridge north of North Kansas City, on siding from C. B. & Q. R. R. to purification plant, two 56-ft. spans; plans, etc., from Board of Fire & Water Comms., Kansas City, or Fuller & Maltland, Engrs. for Board, 600 Walnut St., and Fuller & McClintock, 170 Broadway, New York.

Mo., St. Joseph—Public Service Comm. of Missouri, Jefferson City, authorized paving of Sixth St. viaduct.

N. C., Danbury—Stokes County Highway Comm. will receive bids Nov. 17 for several bridges on small streams. Lately noted bids Sept. 15.

N. C., Nashville—Nash County Comms. are considering plans to erect concrete bridges over all passes in County to replace wooden spans.

N. C., Salisbury—Southern Ry. Co., J. B. Akers, Ch. Engr. Maintenance of Way, Charlotte, N. C., plans building underpass between Salisbury and Spencer.

N. C., Wilmington—City contemplates building bridge across Cape Fear River, 500-ft. vertical lift span, with minimum clearance of 70 ft. and maximum of 170 ft. Address Chamber of Commerce.

N. C., Wilmington—R. C. Cantwell, Commr. of Public Works, will receive bids Oct. 22 for underpass beneath railroad tracks at crossing on Castle Haven road, near Nixon St.; K. M. Cowan, Mayor.

N. C., Winton—State Highway Comm., Raleigh, will receive bids Nov. 12 for bridge and 4 mi. approaches over Meherren River, Hereford County.

Okla., Grove—State Highway Dept., Oklahoma City, will receive bids Oct. 17 for two bridges: over Honey Creek south of Grove and over Beaty's Creek east of Jay; also for fill and approaches to Spavinaw Bridge.

Okla., Hugo—State Highway Comm., Oklahoma City, Okla., and State Highway Comm., Austin, Tex., are considering plans for free bridge over Red River, between Hugo and Paris, connecting Oklahoma and Texas.

Okla., Oklahoma City—City let contract to McClintic-Marshall Co., Pittsburgh, Pa., for 823 tons of iron for Walker St. viaduct.

Okla., Purcell—Details under Road and Street Construction.

Okla., Tulsa—Tulsa County will build and improve 12 culverts and one bridge. Details under Road and Street Construction.

S. C., Charleston—Cooper River Ferry Comm. will receive bids Oct. 28 for new trestle and improved causeway connecting Sullivan's Island and Mount Pleasant at Cove Inlet; total length 5800 ft. or approximately 1.125 mi., bridge being 1430 ft., remainder in embankments; will surface causeway with gravel and bridge with asphalt; approximate cost \$160,000.*

S. C., Kingsburg—Florence County Governing Comm., Florence, and Marion County Comms., Marion, organized Allison Ferry Bridge Comp., E. T. Wilcox, Chmn., Marion, to construct steel and concrete toll bridge across Pee Dee River at Godfrey's Ferry, Kingsburg, connecting Briton's Neck, Marion County, with Johnsonville and Kingsburg sections, Florence County; estimated cost \$150,000.

Tenn., Greeneville—Details under Road and Street Construction.

Tenn., Huntsville—Details under Road and Street Construction.

Tex., Austin—City will build low water bridge across Barton Creek on Barton Springs road, cost \$15,000, County to pay half; W. D. Yett, Mayor; Geo. S. Matthews, County Judge.

Tex., Bruceville—McLennan County Comms. will receive bids Oct. 22 for underpass near Bruceville; estimated cost \$40,000; County, State Highway Dept. and Katy Ry. bearing expense.

Tex., Cameron—Milam County received low bids from Thomas & Ratliff, Rogers, Tex., at \$123,786, for 192-ft. steel truss across Little River, 2700-ft. timber trestle and grading, bridges and gravel surfacing on 2 mi. State Highways Nos. 44 and 36; A. F. Mitchell, County Engr.; Jeff T. Kemp, County Judge.*

Tex., Smithville—Bastrop County let contract to Austin Bridge Co., 1813 Clarence St., Dallas, at \$10,346, to repair 800-ft. bridge across Colorado River at Smithville; J. B. Price, County Judge, Bastrop.

Virginia—State Highway Comm. Richmond, received low bids for 4 bridges: Route 10, over Clinch River, Robert W. Curtis, Lynchburg, \$48,115; Route 36, bridge and approach to Millwood Creek, Robert Curtis, \$13,786; Route 251 over Pimmets Run, Robert W. Curtis, \$11,085; Route 18, over Dan River and approaches, Robert W. Curtis, \$66,936.*

W. Va., Charleston—Kanawha County Comms. plan building 4 bridges; will vote Nov. 4 on \$2,225,000 bonds.*

W. Va., Welch—McDowell County will build 2 bridges. Details under Road and Street Construction.

Coal Mines and Coke Ovens

Ala., Altoona—W. L. Smith and associates of Gadsden, Ala. reported to have completed plans for developing coal lands in western part of Etowah County, initial contemplated output about 200 tons daily to be increased to 500 tons; has 65 ft. tippie and railroad connecting it to the mines.

Ala., Jasper—Moss-McCormick Co. let contract to Stanley & Singer of La Fayette, Ala. to build railway connecting the Moss-McCormick mines with the Frisco spur line that is used by the Galloway Coal Co. No. 11 mine; construction begun.

Ky., Madisonville—Dozier-Diamond Coal Co., capital \$20,000, incorporated by W. B. Dozier, Jesse Diamond and E. W. Dozier.

West Virginia—Garnet Fuel Co., capital \$100,000, incorporated by W. T. Chapin, C. K. Weaver, Geo. S. Baines, all of Newport News, Va.

W. Va., Charleston—Raleigh-Wyoming Coal Co., Professional Bldg., Angus McDonald,

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Pres., increased capital from \$100,000 to \$700,000.

Cotton Compress and Gins

Ala., Orville—Orville Gin & Light Co., capital \$15,000, incorporated by J. E. Dunaway, H. E. Marshall, F. F. Forrisha.

Okla., Waurika—Interstate Compress Co. of Fort Worth, Tex., will rebuild cotton compress.

Tex., Texarkana—Texarkana Cotton Compress Co. will rebuild compress, burned at loss of \$300,000; F. H. Good, Gen. Supt., 2214 Louisiana St., Little Rock, Ark.

Drainage and Irrigation

Fla., Sarasota—Canal Construction Co., 189 W. Madison St., Chicago, Ill., has been awarded contract for Fruitville Drainage project in Sarasota County, reclaiming about 26,000 acres land.*

Miss., Greenwood—Bear Creek Drainage Dist. organized with C. G. Nichols, Pres., Swiftown, Miss.; J. L. Campbell, Sec., Belzoni, Miss.; will reclaim 140,000 acres land in LeFlore, Humphreys and Sunflower Counties; Abbot Engineering Co. of Greenwood and C. E. Miller of Belzoni, Associate Engrs.

Mo., Cape Girardeau—Little River Drainage Dist., John H. Himmelberger, Pres. Board of Supvrs., let following contracts: To Oscar Kochtitzky, England, Ark., at \$784,000 for 5,352,000 cu. yds. clearing and other work, Cont. 32; to J. D. Jones Construction Co., Chillicothe, Mo., at \$104,000 for 1,010,000 cu. yds. clearing and other work, Contr. 37; to C. A. Tant, Portageville, Mo., at \$104,300 for 1600 acres clearing right-of-way, Conts. 51 and 52; to Crumpecker & Adams, Morehouse, Mo., at \$16,000 for 345 acres clearing right-of-way, Cont. 53; Morgan Engineering Co., Engrs., 620 Goodwyn Institute Bldg., Memphis, Tenn.*

Tex., Houston—Harris County Commrs. of Drainage Dist. No. 7 will receive bids Oct. 25 for clearing and grubbing right of way of the main Greens Bayou ditch from Frisco railroad to the H. E. and W. T. railway; H. L. Washburn, County Commr.

Electric Light and Power Plants

Alabama—Alabama Power Co., Thos. W. Martin, Pres., Brown-Marx Bldg., Birmingham, Ala., granted permission by Alabama Public Service Comsn. to extend electric service lines to nine Alabama towns, including Uniontown, Faunsdale, Demopolis, Leighton, Town Creek, Hillsboro, Trinity, Cherokee and Courtland.

Ala., Fayette—Alabama Power Co., Brown-Marx Bldg., Birmingham, Ala., will construct power line from Coal Valley Pass to Fayette

Ala.; line will be 26 miles long, to be a continuation of Warrior-Corona line from Gorges' steam plant; will be 44K.V. built with L. L. Y. P. creosoted poles, galvanized hardware, etc.; will furnish 450 kva and will connect Coal Valley Pass, Bankston, Berry and Fayette; Dixie Construction Co., Gen. Contr., Ledger Bldg., Birmingham, Ala.*

Ala., Fayette—Alabama Power Co., Thos. W. Martin, Pres., Brown-Marx Bldg., Birmingham, Ala. reported to have acquired utility plant.

Fla., Frostproof—Details under Water Works.

Fla., Miami—Details under Land Developments.

Fla., Sarasota—Details under Land Developments.

Fla., Tampa—Details under Land Developments.

Ga., Cloudland—Details under Land Developments.

Ga., West Point—Chamber of Commerce, J. T. Whelden, Sec., interested in establishment of white way. (See Machinery Wanted—Electric Light System.)

La., New Orleans—Details under Land Developments.

Md., Baltimore—International Utilities Corps., capital \$110,000, incorporated by Wm. H. Hall, Max N. Hammerling, Ralph P. Buell, 165 Broadway, New York.

Mo., Nevada—West Missouri Power Co., L. K. Green, Pres., Pleasant Hill, Mo., reported to have acquired Fort Scott-Nevada Light, Heat and Water Power Co.'s properties, including light, water and gas plants at Nevada, and distributing system at Deerfield, Moran and Bronson, Kan.

Mo., Poplar Bluff—Kiwanis Club and Chamber of Commerce will consider project of M. H. Meredith and Arthur T. Brewster to construct hydro-electric development on Black River.

Wire from M. H. Meredith states, "Parties interested here propose construction of dam on Black River near Piedmont, Mo.; 130 ft. high for combined flood control and hydro-electric development; 100,000 acres rich bottom lands near Poplar Bluff will be reclaimed from annual floods and engineers report possible 10,000 h.p. development by one dam; it will make lake of about 14,000 acres above dam; application for preliminary permit has been forwarded Federal Power Commission; Robert Isham Randolph, Chicago, Consult. Engr.; cost of project about \$3,000,000 to \$4,000,000."*

N. C., Asheville—Asheville Power and Light Co., Patton Ave., and affiliated interests reported to have acquired rights for develop-

ment of water power along Big Pigeon River for distance of 17 miles, and will expend about \$12,000,000; main plant to be located in North Carolina about 40 miles from Asheville; development will include dam 170 ft. high, impounding lake with about 8 miles of shore line; transmission lines will convey power to all sections of Western North Carolina; will also double capacity of steam plant of North Carolina Electrical Power Co., Ownbey St., making a total of 17,000 h.p.

N. C., Bethel—City Council will install electric light and power system; \$25,000 available.

N. C., Ellenboro—City, O. R. Coffield, Mayor, contemplates voting on \$10,000 electric light and power bonds.*

N. C., Franklin—City has issued \$300,000 bonds for construction of hydro-electric power plant on Little Tennessee River; develop 2000 to 3000 h.p.; concrete construction.

Okla., Sentinel—City votes Oct. 28 on granting 25 year franchise to Inland Utilities Co., Kansas City, Mo.

S. C., Aiken—E. B. Lee, statistician of Electric Bond and Share Co., 71 Broadway, New York, advises that the J. G. White Engineering Corporation, 43 Exchange Place, New York City, has not acquired properties of Carolina Light and Power Co., main office Raleigh, N. C., as recently reported.

S. C., Anderson—Anderson Utilities Co. increased capital from \$10,000 to \$20,000.

Tex., Cooper—Texas Power and Light Co., Dallas, has purchased electric light and power plant of Cooper Power and Light Co. and has 50-year franchise.

Tex., Frankston—Frankston Electric and Power Co., capital \$10,000, incorporated by J. R. Hughes, D. L. Hugon, E. P. Miller.

Tex., Jacksonville—City Council let contract to Jacksonville Electric and Ice Co. for white way.

Tex., Plainview—Texas Utilities Co. of Plainview will install 750 h.p. engine.

Va., Fredericksburg—Spotsylvania Power Co., G. W. Shelhorse, Sec., plans extension of lines.

Va., Montvale—The Montvale-Thaxton Transmission Co. contemplates 5½ mile extension to transmission line, 6600 volts; line will extend from Montvale to Blue Ridge Springs, Va.; work will begin immediately; J. M. Stephens, Mgr., Montvale.

W. Va., Ronceverte—Virginia-Western Power Co., A. C. Ford, Pres., Clifton Forge, Va., reported to construct power line from Ronceverte to Clifton Forge.

Advices from the company state that company has started work on steel tower,

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MANUFACTURERS RECORD

BALTIMORE, MD.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

120,000 volt transmission line between Clifton Forge and Ronceverte, W. Va., at an estimated cost of \$860,000; Francis R. Weller, Const. Engr., Washington, D. C.; construction will be completed this month on same type of line between Charlbitessville and Staunton at cost of \$60,000.*

Fertilizer Plants

Md., Hagerstown—Washington County Marl Fertilizer Co. reported to have acquired 134 acre farm near Benevola, containing deposits of marl.

S. C., Spartanburg—International Agricultural Corporation, Red Rock Bldg., Atlanta, Ga., let contract to Hugger Bros., 910 Bell Bldg., Montgomery, Ala., to construct \$125,000 fertilizer plant at Arkwright, to replace plant burned last August; will install modern machinery; L. Longo, Local Mgr.*

Flour, Feed and Meal Mills

Mo., St. Louis—Carlinvill Milling and Supply Co., capital \$50,000, incorporated by F. Lenz, 709 Victoria Bldg.; E. Postel, C. Brockett.

Foundry and Machine Plants

Md., Baltimore—Charles A. Bowers has taken over plant formerly occupied by the American Tool & Machine Co. at Belair Rd. and Southern Ave.; will operate machine shop, specializing in dies, etc.

Mo., Kansas City—Black, Sivals & Bryson, Inc., A. H. Black, Pres., Independence, Kan., let contract to Kansas City Structural Steel Co., 704 Orear-Leslie Bldg., for steel frame of new tank manufacturing plant, size 488 ft. on long side, 388 ft. on short side, 180 ft. wide with three 60 ft. aisles; has 10 acre site; J. F. Lauck, Archt.*

N. C., Goldsboro—Plows, Castings, etc.—Wayne Agricultural Works, Inc., D. W. Davis, Pres., are constructing modern wood-working plant, making additions to foundry, also adding to storage facilities, etc., costing \$25,000.

South Carolina—Milton G. Smith, Chrmn. Convention Committee Southern Textile Exposition, Greenville, S. C., reported in communication with several firms manufacturing textile machinery, who may locate plants in South.

Gas and Oil Enterprises

Fla., Sarasota—Details under Land Developments.

Fla., Tampa—Details under Land Developments.

Ky., Frankfort—Fowler Brothers Petroleum Co. incorporated by W. Earle Fowler, W. T. Fowler, Jr., and others.

La., Monroe—Warren Oil Co., Inc., W. Monroe St., capital \$40,000, chartered with W. B. Warren, Pres.; J. F. Warren, Sec.

Mo., Carthage—Ozark Drilling Co. incorporated by P. C. Remler, F. M. Clayton, J. C. Wyatt, 600 E. Centennial St.

N. C., Raleigh—Standard Oil Co. of North Carolina, 503 Lawyers Bldg., capital \$50,000, incorporated by Matt H. Allen, J. E. Beaman and others.

Tex., Bryan—Bryan Petroleum Co. incorporated by O. E. Saunders, R. G. Herbert, J. C. Vick.

Tex., Fort Worth—Plum-Jeff Oil Co., capital \$100,000, incorporated by P. R. Plummer, 1301 Colleye St.; C. Goodfellow, W. D. Caldwell.

Tex., Mineral Wells—Zadie Belle Oil Co. capital \$85,000, incorporated by J. Truman, Jr., John T. Hughes, B. L. Waggoman.

Tex., Panhandle—Big Four Refining Co., J. D. Wraether, Amarillo, Tex., will expend \$200,000 in erection of 2000 bbl. capacity refinery; later plan construction of 18 mi. of 3-in. pipe line.* (See Machinery Wanted—Pipe.)

Tex., Waskom—Waterman Drilling & Development Co., capital \$16,000, incorporated by S. A. Tully, W. H. Cross, A. E. Haden.

Ice and Cold-Storage Plants

Fla., Miami—T. J. Fletcher and J. C. Johnson, 1024 Clairmont Ave., both of Atlanta, Ga., have acquired site corner N. Miami Ave. and Twenty-third St.; will erect 100 ton daily capacity ice plant, construction to begin immediately; machinery all purchased.

Mo., Albany—The Albany Ice & Cold Storage Co., capital \$35,000, incorporated by John W. Kessler, Walter Lainhart, both Albany; Joseph S. Young, 924 W. 17th St., Kansas City, Mo.

Tex., Vernon—Vernon Electric & Ice Co. will erect \$35,000 plant addition, 80x110 ft., brick construction, daily capacity 25 tons.

Iron and Steel Plants

Tex., Fort Worth—United States Steel Corp., 71 Broadway, New York, reported to have purchased the Cyclone Fence Co., Waukegan, Ill., with plants in Waukegan, Cleveland, Fort Worth, Tex., and Newark, N. J.; will continue operation under name of Cyclone Fence Co. as a separate subsidiary of Steel Corp.

W. Va., Wheeling—Wheeling Steel Corp., reported as contemplating merger with eastern steel interests.

Isaac M. Scott, Pres. Wheeling Steel Corp., advises: There is no truth in the statement recently appearing in the daily press to the effect that this corporation was considering the question of merging with other steel interests.

Land Development

Ala., Birmingham—Southern Exploit Co. incorporated by Kendrick S. Stalling, F. M. Houston, J. B. Allgood.

Ala., Birmingham—Hancock Co., Inc., incorporated by A. F. Hancock, J. J. Shields, Louis McLaurine.

Ala., Birmingham—Hollywood Land Co., Ben M. Cheesman, V. P., Norwood Court Apts., acquired 180 acres of land along the Montevallo road and will develop for subdivisions; will construct paved driveways, etc.

Ark., Russellville—City Council will acquire property in eastern section and will develop for park.

Ark., Little Rock—Commercial Building Co., capital \$50,000, incorporated with L. C. Holman, Pres.; John P. Baird, V. P., 222 Byrd St.

Florida—Details under Miscellaneous Construction.

Fla., Belleair—Details under Miscellaneous Construction.

Fla., Dover—Wayne Thomas of Thomas Advertising Service acquired 280 acres of land and will develop for town-site, tourist camp and golf links; will construct roads and streets, etc.

Fla., Bradenton—Underhill-Wells Co., incorporated by G. C. Underhill, R. W. Wells and others; will develop subdivision; in stall water; sewer; roads and streets, etc.

Fla., Clewiston—Isaac T. Cook, St. Louis Mo., reported to have acquired entire town site of Clewiston.

Fla., Daytona—Country Club Development Co. is having plans prepared by Frederick Law Olmstead, Boston, Mass., for development of tract of land on Halifax River; will construct streets, sidewalks, gas, electric lights, water and sewers will be furnished by the city.*

Fla., Daytona Beach—The Ribault Corporation, capital \$10,000, incorporated with Elmer Oliver Pres.; Henry C. Schultze, Sec.

Fla., Fort Pierce—Tropical Beach Land Co.,

E. Lee Hughes, Pres., 223 N. E. 27th St., Miami, Fla., reported to begin extensive developments of 2400 acres of land on the peninsula; will construct roads, build bridges across Indian River, etc.

Fla., Fort Pierce—E. W. Ayres of Fort Wayne, Ind., has acquired tract of river frontage land and will develop for subdivision.

Fla., Frostproof—Details under Land Developments.

Fla., Haines City—Joseph Roemer acquired 40 acre tract of land on Melbourne Ave. and will develop.

Fla., Lake Alfred—Lake Alfred Improvements Co., capital \$25,000, incorporated with J. T. Boley, Pres.; J. D. Miles, Sec.

Fla., Lakeland—H. A. Stahl Florida Properties Co., capital \$500,000, incorporated with J. J. Haldeman, Pres.; L. R. Abbott, Sec.-Treas.; has acquired and will develop tract of land on Lake Hollingsworth; will construct golf course; build club house, etc.

Fla., Lakeland—The Dunklin-Wright Properties, Inc., capital \$75,000, incorporated with Nono Dunklin, Pres.; Scdie B. Wright, Sec.

Fla., Miami—Crow-Reeder Co., Crow Bldg., have acquired tract of land on N. W. Fourteenth St. and will develop for subdivision.

Fla., Miami—Bennett Holding Co., incorporated with W. M. Bennett, Pres.; C. C. Small, Sec.

Fla., Miami—Hammond Realty Co., 239 E. Flagler St., is developing subdivision; will install water; sewers; electric lights; pave streets, construct 70-ft. boulevard, etc.

Fla., Miami—Converse Properties, Inc., capital \$10,000, incorporated with A. C. Converse, Pres.; W. B. Schooffield, Sec.

Fla., Miami—Cooper-Ryerson, Inc., capital \$25,000, incorporated with A. W. Ryerson, Pres.; C. W. Cooper, Sec.

Fla., Miami—Dixie Realty Corp., capital \$25,000, incorporated with Daniel Brown, Pres.; A. Wolf, Sec., 321 N. W. Fifth St.

Fla., Miami—Chas. Grimm Co., capital \$25,000, incorporated with Charles Grimm, Pres., 142 N. W. Tenth Ave.; R. E. Grimm, Sec.

Fla., Miami—Archer and Ott Properties, capital \$20,000, incorporated with C. F. Archer, Pres.; Helen A. Archer, Sec.

Fla., Miami—Carolina-Miami Development Co. incorporated with C. S. Hassell, Pres.; Floyd L. Knight, Sec., 227 N. E. 20th St.

Fla., Ormond Beach—Seaboard Realty Corp., 139 Live Oak St., C. N. Gallagher, Pres., 641 S. Ridgewood Ave., Daytona, Fla.; C. E. Talbot, Sec., 228 Peninsular Drive Daytona Beach; will develop 39 acres for Sudan Ormond sub-division; construct roads and streets, etc.; Geo. Graham, Archt., Orange Ave., Daytona; Walter Romeo, Contr., Ormond, Fla.; Geo. Graham, Constr. Engr., Orange Ave., Daytona.*

Fla., Palatka—Palatka Development Co., Dr. L. W. Warren, Pres., will develop subdivision; will construct concrete sidewalks and hard-surfaced streets, etc.

Fla., Palmetto—City voted \$12,000 bonds for park development; W. A. Mann, Clk.*

Fla., Plant City—C. P. Simonton will develop 200 acres of land.

Fla., Plant City—S. A. Allen will develop 200 acres on Plant City—Thonotosassa Road and will develop.

Fla., Plant City—T. J. Knight and H. B. Andrews acquired 200 acres on Moore's Land and will develop.

Fla., Sarasota—W. H. Register, Orange Park, of Jacksonville, acquired 100 acres of land, near Indian Beach station.

Fla., Sarasota—Traylor & Whipple acquired 160 acres of Siesta Key which adjoins present holdings of 260 acres and will develop

for subdivision; will grade and pave streets, etc.

Fla., Sarasota—J. H. Lord will develop 520 acres of land for suburban development, "Sarasota Bay Estates"; will construct along 2 mile bay front a wide boulevard; will build several islands in Sarasota Bay connected to the main land by artistic bridges; construct concrete seawall; eight miles of paved streets with curbing, concrete sidewalks; water works; electric lights; sewerage disposal plant, etc.; Marshall-Ennis Realty Co., Lord's Arcade, Central Ave., is in charge of sales.

Wire from J. H. Lord states, "Sarasota Bay Estates includes development of 520 acres fronting 2 miles of Sarasota Bay for high class restricted suburban townsite; seawalls; islands thrown up; complete city, modern conveniences including miles of paved streets; curbing; concrete sidewalks; water works system; electric lights, sewerage disposal system; provision made for schools, parks and playgrounds; reception piers; yacht basin; community center; business blocks; 2400 building estates."

Fla., Sarasota—Deleplane-Price Development Co., E. S. Deleplane, Jr. Pres., Montgomery, Ala., is developing 1100 acres of land, with 6 miles of waterfront, into suburban homesites; will construct yacht basin, golf course, 80 ft. streets, 250 ft. parkway, install water, electricity, gas, sewers; E. H. Price is general manager; T. A. Monk, Contr., Vandiver Bldg., Montgomery, Ala.; Dave Ellison, Gen Supt; Young Engineering Co., St. Petersburg, Fla. has charge of platting of lots.*

Fla., Sarasota—Bacheller-Brewer Corp., capital \$150,000, incorporated with Edward H. Brewer, Pres.; Fred F. Wooley, Sec.; will develop 168 acres of land for sub-division; will install house and street lighting system; septic tanks; private automatic electrically driven water works; Tarvis covered rock roads; curbs, sidewalks; dredging and concrete sea walls; etc.; W. V. V. Stephens, Archt., Sarasota; L. E. Kemp, Road Contr., Sarasota; W. V. V. Stephens, Constr. Engr.

Fla., Sarasota—E. C. Meminger and associates of Lakeland, Fla., sold 279 acres of land to a Tampa syndicate.

Fla., Seffner—Mrs. Sarah N. Pancoast of St. Petersburg, Fla., acquired 400 acres of land and will develop.

Fla., St. Petersburg—Park Board will improve water front park from Fifth Ave. north to Fifth Ave. south.

Fla., St. Petersburg—Rogers-Scott acquired 80 acres tract on Fifty-second and Seventeenth Ave. and will develop for sub-division.

Fla., St. Petersburg—Fogarty Bros. acquired 20 acres of land at Largo and will develop for sub-division.

Fla., St. Petersburg—Beverly Hills Development Co., capital \$60,000, incorporated with Bob C. Smalley, Pres., Third Ave. and 28th St. N.; Maynard R. Duryear, Sec.

Fla., Tampa—Furman B. Moodie Properties, Inc., Furman B. Moodie, has acquired 117 acres of land on south side of Gandy Bridge and will develop for residential suburb; land extends one half mile into the bay and contract has been let to McElroy Engineering Co., Gladders Bldg., for filling in the bay to a distance of one half mile from shore and the construction of seawall; will also erect yacht basin and deep water swimming pool; build \$150,000 pier; will install water, sewer, electricity, gas, roads, etc.; expend \$12,000,000. Wire from Dr. B. M. Moodie, 725 S. Broadway Ave., states: "117 acres to include \$250,000 hotel, 3 apartment houses;

\$150,000 pier; 2 yacht basins; deep water swimming pool; seawall; residences; paved roads; bridges; reproduction of Guffrey Vessel tea room in Hollywood to be constructed by Guffrey; New York Yacht and Gun Club to erect hotel; E. G. Rogers of Jacksonville the apartment houses; myself the remainder of development; McElroy Engineering Co., Engineers and Contractors, Florida Engineering and Landscape Co., Campbell Bldg., E. H. Trebes, Contr.; 602 Frances Ave., Architects and complete construction facilities not ready for announcement; dredging work started."

Fla., Tampa—M. Ressler, 315 W. Park Ave., and associates have acquired 1680 acres of land near Rocky Point and will develop for subdivision.

Fla., Tampa—Welsh Sterling & Endicott, 7 Washington Square, incorporated with A. E. Welsh, Pres.; H. H. Sterling, Sec.

Fla., Tampa—Leroy Cotter of Cotter Realty Co., representing I. W. Souls, Milton, acquired and will develop subdivision of 30 acres on Memorial Highway.

Fla., Tampa—Hernando Corporation of Delaware, E. C. Stuckless, Pres., New York City, acquired 50,000 acres of land and will develop.

Fla., Tampa—Cotter Realty Co., Leroy Cotter, Pres., 337 Plant Ave., will develop 40 acres for subdivision.

Fla., Tampa—Stuart-Gunlocke Co., capital \$50,000, incorporated with C. B. Stuart, Pres.; R. A. Wackerman, Treas., 610 Memorial Highway.

Fla., Tampa—Tami Realty Co. incorporated with Sydney S. Goldberg, Pres.; I. L. Leserman, Sec.

Fla., Tampa—Inter-City Realty Co., capital \$12,500, incorporated with S. C. Harris, Pres.; H. Clark Helms, Sec.

Fla., West Palm Beach—C. S. Ucker, Seaboard Railway, acquired 40 acres and will develop in citrus fruits.

Fla., West Palm Beach—Capt. A. S. Anderson of Anderson Dredging Co. acquired 40 acres of land, will develop in avocados.

Fla., West Palm Beach—Hooker, Comeau & Gene Bartholemew acquired 40 acres of land, and will develop for subdivision.

Fla., West Palm Beach—W. R. Bonsal of F. W. & N. Ry. acquired 40 acres of land, and will develop.

Fla., West Palm Beach—Benson & Clark acquired 200 acres of land and will develop for nursery, etc.; will build conservatory, etc.

Fla., Winter Haven—Henry W. Tandy, Tampa, Fla., interested in development of sub-division.

Fla., Winter Haven—Florida Southern Land & Securities Co., capital \$10,000, incorporated with J. C. Miller, Pres.; J. F. Hanley, Sec.

Ga., Cloudland—Lookout Mountain Development Co., capital \$100,000, incorporated by R. E. McDonald, 22 N. E. 38th St., Miami, Fla.; W. C. Ledbetter, Cloudland; has acquired 6500 acres of land adjoining Cloudland Park and will develop for subdivision; will construct golf course; build dam on Little River, creating a lake of 200 acres for boating, fishing and bathing; build boulevard around lake and golf course; install water works, sewer system, electric lights, etc.

Ga., Columbus—City Commr. interested in development of park in St. Elmo Place.

Ky., Louisville—Kentucky Realty Co., incorporated by Robert S. Tens, Louise Specht.

Ky., Louisville—Ormsby Realty Co., capital \$200,000, incorporated by John S. White, Jr., C. R. Webb, 1479 Second St., E. T. Hutchins.

La., Baton Rouge—City Commn. Council will expend \$10,000 on development of park between city and State University; build boulevard, etc.

La., Monroe—A. & F. Investment Co., Inc., capital \$50,000, incorporated with T. E. Flournoy, Pres.; 800 River Front St., Abbe Arant, Sec.-Treas.

La., New Orleans—Lake Front Development Co., capital \$100,000, incorporated with Leigh Carron, Pres.; 1420 Polymnia St., F. C. Codner, Sec.; has acquired 300 acres of land along Lake Pontchartrain and will develop for subdivision; will construct roads and street; install water, sewers, electric lights, gas, etc.; dredge lake in front of property and erect levee basin; total cost of initial investment \$250,000.

La., New Orleans—Sunset Realty & Planting Co., Inc., chartered with A. V. Smith, Pres.; H. C. Homeyer, Sec.-Treas.

Miss., Tupelo—Home Realty Co., capital \$25,000, incorporated by S. J. High, C. H. Daubs, Ward Baker.

Mo., Cartersville—F. N. Investment Co., capital \$10,000, incorporated by L. Pitman, M. C. Terry, S. C. Betts.

Mo., Kansas City—Roaring River Development Co., incorporated by H. E. Lunsford, 816 Lathrop Bldg.; O. R. Abel, 1702 E. Thirty-fifth St. and others.

Mo., St. Louis—The Douglass Co., capital \$50,000, incorporated by Wm. O. McMahon, 2348 Olive St., A. C. MacIn, W. H. Mosby.

Mo., St. Lou's—Clayton Rose Co., incorporated by Frank L. Sanders, Hanley Rd. and Wellington Ave.; O. K. Sanders, 623 Clara Ave. and others.

Mo., St. Louis—Board of Public Service approved acquisition of land for 4 additional playgrounds; \$2,500,000 available.

Mo., St. Louis—Own Your Home Realty Co., incorporated by T. W. Hill, Jr., W. V. Patton, 5922 Enright St., B. F. Mullen.

Tex., Waco—H. F. Pochyla has acquired 216 acres and will develop in pecans.

La., Lake Charles—Landry Real Estate Co., capital \$30,000, incorporated with R. L. Hale, Pres.; J. R. Green, Sec.

Md., Baltimore—Roland Park-Homeland Co., controlled by Roland Park Co., 332 N. Charles St., is developing Homeland, a 400 acre tract of land on Charles St. Ave.; will construct concrete sidewalks, pave streets and alleys; install sanitary sewers, storm drains, water mains; gas and electric lights, etc.; engineering work is being handled by Roland Park office of company.*

Miss., Natchez—S. H. Butler of Memphis, Tenn., acquired 4000 acres of land and will develop.

Mo., Joplin—L. B. Cook, Chrmn. of Schifferdecker Park, interested in improvements to park to consist of sunken garden, concrete water runs to provide drainage, etc.

Mo., Springfield—Rainbow Fish & Hunting Club, incorporated with \$10,000 capital, M. P. Nibler, Pres.; will develop 64 acres of land for hunting and fishing; will construct dam and lake, road, etc.*

Mo., Springfield—Springfield Park Board will have plans prepared by Hare & Hare, Kansas City, Mo., for park improvements.

S. C., Charleston—Charleston Automotive Assn., interested in establishment of tourist camp.

S. C., Greenwood—George W. Park has acquired White City Park including lake and 24 acres of land.

Tenn., Knoxville.—Miss Lulu Durland, Director of Community Service Bureau, interested in establishment of municipal park, 18-hole golf course, natural lake and swimming pool.

Tex., Beaumont—Beaumont Landscape Co., incorporated by J. A. Mayer, P. G. Crook, 2254 South Street, and others.

Tex., Denton—North Texas Conference of Methodist Church, J. A. Stockard and R. I. Whitmore, both Denton, and Rev. C. L. Mounds, Decatur, Tex., interested in development of 37 acre camp; will expend \$50,000 in improvements.

Tex., Brownsville—I. L. Toler of Gloucester, Miss., acquired citrus orchard near Weslaco.

Tex., Dallas—B. C. Lucas, Pres., Dallas Development Co., Western Independent Bldg., plans development program.

Tex., Nacogdoches—Wynne-Buchanan Land & Timber Co., capital \$50,000, incorporated by M. V. Wynne, J. H. Buchanan, R. T. Moore.

Tex., San Antonio—J. H. Buchanan and associates of Brenham, Tex. acquired 4500 acres in Dimmitt County.

Tex., Waco—Waco Municipal Golf Assn., C. R. Turner, Pres., will develop 100 acres for 18-hole golf course; cost \$10,000; W. A. McConnell, Archt., care Spring Lake Club, Waco.*

Tex., Waco—H. F. Pochyla has acquired 320 acres of land in Gholson Valley and will plant 216 acres in paper shell pecans.

Tex., Waxahachie—Waxahachie Chamber of Commerce and Rotary Club interested in establishment of tourist park.

W. Va., Huntington—North Huntington Heights Co., capital \$50,000, incorporated by R. T. Neel, 1250 Kanawha Terrace, F. A. Ware, A. A. Ridleberger.

W. Va., Morgantown—Wheelmor Improvement Co., capital \$75,000, incorporated by Minter L. Wilson, James S. Short, Alfred B. Scott, 409 High St.

Lumber Enterprises

Fla., Sarasota—Bert Pero of the Southeastern States Lumber Co., Moultrie, Ga., contemplates establishing planing-mill, etc.

Miss., Millard—Batson-McGehee Lumber Co., will rebuild burned portions of saw mill and fuel house.

Miss., Morton—Adams & Banks Lumber Co. are having plans made by Thrall & Shea, of Lake Charles, La. for the rebuilding of burned planing mill and dry kilns, will also do construction work.*

N. C., Henderson—Henderson Lumber Co., capital \$100,000, incorporated by Ben Fisher, R. J. Corbett and others.

Metal-Working Plants

Mo., St. Louis—Grip-Tite Curtain Rod & Metal Co., capital \$50,000, incorporated by Louis Rosenblatt, 6625 Washington St.; E. W. Oliver, 3956 Natural Bridge and others.

Mining

Georgia—J. F. Noland, special representative of C. J. Kelly & Co., New York city, reported to have closed negotiations and will assume control of the Georgia Copper Company, Metosville, Georgia, which has mines in Lincoln and Wilkes Counties; plans include expending approximately \$2,000,000 for installing machinery, erecting new buildings and developing the mines.

Md., Baltimore—Thomasville Stone & Lime Co., 607 Calvert Bldg., incorporated by D. List Warner, Geo. S. Newcomer and John H. Jackson.

Mo., Cape Girardeau—Cape Sand Co., Linde Deimund, Asst. Mgr., will establish \$20,000 plant on Main St., has 115x145-ft. site, will erect bin for unloading sand into wagons, capacity 500 tons; arrange storage facilities for 15,000 to 20,000 tons; install conveying equipment, screening machinery, etc., all equipment to be of steel and concrete; plans under construction.

Mo., Joplin—The S. R. and W. Mining Co. reported to have taken an option on the Kansas Line mine; will operate.

Mo., Joplin—Commercial Metals Mining Co., H. J. Bradley and associates, contemplate developing 1200 acres of land, embracing the entire Surgeon mining section; operations to start immediately.

Mo., Versailles—Barnett Lead & Zinc Mining Co., capital \$26,000, incorporated with John A. Hill, Pres.; B. C. Tunison, Sec.

N. C., Mt. Pleasant—Gold—The North State Mining Co. organized with J. L. Mittenbuhler, Pres.-Mgr., has 150 acres to develop, install 25-ton mill; will sink shaft 100 ft. and drift on the vein before putting in plant.*

Tenn., Chattanooga—Belmont Land & Mining Co., H. L. Davis, Sec., has leased 368 acres mineral land in Bradley County to W. H. Wainwright, of Muskogee, Okla., has installed hydraulic mining plant, daily capacity 20 tons manganese ore; will soon require washer and screen with fine mesh, increasing daily output to probably 30 tons.

Miscellaneous Construction

Florida—Bulkhead—W. J. Conners, West Palm Beach, Fla., reported as planning to expend approximately one million dollars to construct 15 mi. of concrete bulkhead along the east shore of Lake Okeechobee, between Okeechobee City and the St. Lucie canal, backed by parkway of palms and flowers, modern highway, etc., also reported to have taken option on four sections of land on either side of St. Lucie canal where it enters the lake and purposes to build the town of St. Lucie.

Conners Florida Highway wires: "Plans, specifications, details, construction of bulkhead and development of park along shore of Lake Okeechobee not yet complete; held up pending arrival of Mr. Conners in Florida next week; will furnish complete information when available."

Fla., Belleair—Dredging—Bellevue Development Co. let contract to the Seacoast Dredging Co. of Tampa, Fla., at \$30,000 for dredging from 700,000 to 1,000,000 cu. yds. in Clearwater Bay off Belleair; will make an island of 106 acres in front of Bellevue Hotel, build yacht basin between island and mainland, channel, etc.

Fla., Fulford—Canal, etc.—Fulford-by-the-Sea Co. has purchased \$35,000 equipment for dredging and widening the Royal Glade canal to 90 ft.; have begun construction of yacht basin on the Oleta river and public docks.

Fla., Jacksonville—Bulkhead—City Comsn. let contract to R. J. Gallepsie, 1619 Park St., at \$67,607.40 for concrete bulkhead work around the new piers at municipal docks and terminals. Supersedes recent item.

Fla., Sarasota—Seawall—Yohe & Crawford, let contract to C. W. Matheny for dredging and to J. W. Crawford for paving, etc., work in connection with building of 4000-ft. of seawall, 100,000 to 150,000 yds. of dredging in Baypoint Park sub-division; estimated cost \$150,000 to \$200,000; J. G. Kimmel, Engr., Sarasota.*

Fla., St. Petersburg—Dredging—S. S. Martin, Director of Finance, will receive bids Oct. 20 for deepening Bear Creek. (See Machinery Wanted—Dredging.)

Fla., St. Petersburg—Pier—City Comms. and Chamber of Commerce interested in con-

structing recreation pier; estimated cost nearly \$1,000,000, contemplate bond issue.

Fla., Tampa—Pier, etc.—Dr. B. Moodie, 725 S. Brevard Ave., will construct \$150,000 pier, two yacht basins, deep water swimming pool, seawall, etc., in connection with land development; McElroy Engineering Co., Giddens Bldg., and Florida Engineering & Landscape Co., Engrs., Campbell Bldg.; E. H. Trebes, Contr., 602 Francis Ave.; dredging work started.

Fla., Tampa—Swimming Pool, etc.—Details under Land Development.

Fla., Tampa—Yacht Basin, etc.—Details under Land Developments.

Fla., Tampa—Canal—Charles P. Glover, V. P. of the Sunset Park Co., will begin work on Lake Dundee and Lake Kipling and on canal connecting the lakes, also build two concrete bridges crossing boulevard flanking the two lakes; development supervised by S. J. White.

Fla., West Palm Beach—Inlet, etc.—Lake Worth Inlet Dist. Comms., H. G. Greer, Chrmn. will probably let contract to Waldeck Deal Dredging Co., Cooks Dock, of Miami, Fla. to complete harbor, giving 16 ft. at low tide, with necessary jetties, reclamation, channel, docks and warehouses, also turning basins; sold \$410,000 bonds.*

Ga., Cloudland—Dam—Details under Land Development.

La., Lake Charles—Channel—Police Jury of Calcasieu Parish let contract to United Dredging Co. of Galveston, Tex., at \$454,300 for Calcasieu Parish Navigation channel, Sections 1 A and Section 7, removing approximately 3,850,000 cu. yds. earth; Fred Shutts, Parish Engr.*

La., New Orleans—Basin—Details under Land Developments.

La., New Orleans—Levee—Atchafalaya Basin Levee Board will open bids Oct. 15 for construction of inner protection levee in Assumption Parish from Candelene canal to Bayou Lourse; bids opened in office of State Engineers, New Orleans.

Md., Baltimore—Heating System—Board of Awards let contract to Lloyd E. Mitchell, 915 E. Monument St., at \$17,015, to extend heating pipe line from City Hall to the War Memorial Building and proposed Police Bldg. at Lexington St. and Fallsway.*

Miss., Greenwood—Revetment—J. H. Banister has contract to drive piling for revetment work along bank of Yazoo River; will stretch from foot of Main St. to Yazoo River bridge at Fulton St.

N. C., Morehead City—Seawall—City plans building seawall of approximately 500 ft. in length from eastern terminus of present seawall, between Fourth and Fifth Sts., to the Atlantic Hotel pier; another seawall of about 250 ft. long will be necessary at south side of Shepard St. Address City Comms.

S. C., Spartanburg—Incinerator—City, J. F. Floyd, Mayor, will receive bids for incinerator, to supply fast growing city of 25,000 inhabitants; correspond with manufacturers.

Tex., Amarillo—Subway—City and Atchison, Topeka & Santa Fe Ry. will construct subway under tracks within city limits, structural steel and reinforced concrete piers 710-ft. long, 48-ft. wide and 16-ft. deep; includes 2982 ft. of 42-in. concrete storm sewer pipe, 3000 yds. paving, 3-in. brick on 5-in. concrete base; estimated cost \$58,000; soon take bids for city's part; H. B. Jones, City Engr.

Tex., Austin—City let contract to Superior Incinerator Co., Wilson Bldg., Dallas, Tex., at

\$39,500 for 75 ton capacity incinerator plant; C. E. Leonard, City Engr.*

Tex., Corpus Christi—Traffic Control System—City let contract to Southwestern General Electric Co. for installation of traffic control system.*

Miscellaneous Enterprises

Ala., Birmingham — Red-Mont Apartment, Inc., capital \$10,000, incorporated by Sterling A. Wood, Jr., Basil A. Wood, First National Bank Bldg., and others.

Ala., Birmingham — Alabama Sportsman Publishing Co. incorporated with R. H. Pogue, Pres., 226 Sarah Ave.; John W. Goudelock, Sec.

Ala., Birmingham—Florist—Fraser-Towns Floral Co., capital \$11,000, incorporated by O. W. Fraser, Floyd R. Towns, S. F. Leslie, Edgewood St.

Ala., Birmingham — Hood-Wheeler Furniture Co., 2013 Fourth Ave., capital \$50,000, incorporated with F. W. Fromberg, Pres.; Fred Culver, Sec.-Treas.

Ala., Jefferson—Jefferson Dairy Co. increased capital from \$50,000 to \$100,000.

Ala., Selma—Southern Radio Co., capital \$10,000, incorporated by Albert Meyer, C. A. McKinnon and others.

Ark., Little Rock—Commercial Building Co., capital \$50,000, incorporated by John P. Baird, Q. L. Porter, L. C. Holman, 2418 Arch St.

Ark., North Little Rock—Electrified Water Co. of Arkansas, 18 E. Washington St., capital \$35,000, incorporated by A. A. Broadhead, C. J. Sansell and others.

Fla., Daytona—Electrical Appliances—H. F. Thompson Co., Inc., capital \$10,000, incorporated with H. F. Thompson, Pres.; Kenneth H. Hill, Sec.

Fla., Fairfield—G. H. Whittington Co., incorporated with C. H. Whittington, Pres.; H. Batrell, Jr., Sec.

Fla., Hialeah—Amusement Park—Ivan T. Jacks has charge of building the Winter Gardens Amusement Park, machinery and equipment all purchased and construction begun.

Fla., Jacksonville—Art Stucco Co., R. L. Cook, Pres., Philadelphia, Pa., reported as contemplating establishing plant in Jacksonville.

Fla., Jacksonville—Jacksonville Stereopticon Advertising Co., capital \$10,000, incorporated with W. D. Stevens, Pres., 703 Phillips St., South Jacksonville; Youel G. Pope, Sec.

Fla., Lake Worth—East Coast Construction Co., Inc., capital \$25,000, incorporated with R. L. Ohlfest, Pres.; J. J. Ohlfest, Sec.-Treas.

Fla., Lake Worth—Universal Joint & Gear Co., capital \$500,000, incorporated with D. P. Owens, Pres.; Truman A. Horton, Sec.

Fla., Melbourne—Melbourne Electric Co., incorporated with W. A. Sweat, Pres.; J. E. Blackwell, Sec.

Fla., Quincy—Quincy Jersey Live Stock Co., capital \$80,000, incorporated with A. J. Key, Pres., S. E. Key, Sec.-Treas.

Fla., Sanford—Contracting—Lossing Paint Co., Inc., incorporated with H. F. Lossing, Pres.; C. W. Cooper, Sec.

Fla., Sarasota—The Southern Construction Engineers, Inc., capital \$25,000, incorporated by J. C. Kimmel, Thos. E. Frederick.

Fla., St. Petersburg—Paine Construction Co., capital \$10,000, incorporated with M. C. Kesler, Pres., 318 South Fourth St.; Harold W. Paine, Sec.-Treas.

Fla., Tallahassee—Tallahassee New Way Laundry, capital \$25,000, incorporated with W. T. Moore, Jr., Pres.; W. O. Buchan, Sec.

Fla., West Palm Beach—Engineering—A. I. V. Wilson Corp., capital \$50,000, incorporated with A. I. V. Wilson, Pres.; A. W. Garverick, Sec.

Ky., Carlisle—R. O. Duncan & Son, has received contract to erect redrying plant, capacity for season will be 15,000,000 hogshead and storage plant with capacity of 10,000 hogsheads.

Ky., Golden Pond—W. P. Williams & Co., capital \$10,000, incorporated by W. P. Williams, C. H. Hall and L. G. Ross.

Ky., Lexington—Highland Bus Co., incorporated by M. M. Reld, Boonsboro Park, James Cox and others.

La., Monroe—Ferry—Howze & Comfort, Inc., capital \$20,000, chartered with J. B. Howze, Pres.; F. M. Comfort, Sec.

La., Monroe—Golf Shaft & Block Co., Moorehead St., of Memphis, Tenn. has completed plans and let contract for erection of plant, will manufacture golf sticks.

La., New Orleans—Consolidated Sugars Co., Inc., capital \$284,000, incorporated with J. Van H. Beary, Pres.; A. J. Crozat, Sec., 2513 Marengo St.

La., New Orleans—Contractors—E. J. Brupbacher, Inc., chartered with E. J. Brupbacher, Pres., 3706 S. Franklin St.; R. H. Brupbacher, Sec.-Treas., 4241 Elba St.

La., New Orleans—Jose Escalante Cigar Factory, 700 Baronne St., has leased 6-story building at Decatur and Bienville St., will remodel, installing electric fixtures, plumbing, etc.

La., New Orleans—Trackless Transportation Co., Inc., increased capital to \$30,000.

La., Opelousas—Stewart State Lines, Inc., capital \$25,000, chartered with Will T. Stewart, Pres.; Oscar J. Mistic, Sec.-Treas.

La., Shreveport—A. Goetschel & Co., capital \$20,000, incorporated with Milton Goetschel, Pres., 905 Elmwood St.; Louis Goetschel.

Md., Aberdeen—Louis Fisher, 14 S. High St., Baltimore, Md., has acquired former plant of the Maryland Finishing Co., negotiating with interests who contemplate re-opening building for dyeing plant.

Md., Ammendale—Restaurant—Chateau Le Paradis, Inc., capital \$100,000, chartered by Meyer Davis, Morris Simon and others.

Md., Baltimore—National Biscuit Co., main office 85 Ninth Ave., New York City, have acquired 4-story structure adjoining company's present plant building, at the rear; will later use as extension to present plant; plans not fully developed.

Md., Baltimore—Ottenthaler Bros., Inc., T. Ottenthaler, Pres., 415 N. Howard St. will expend about \$20,000 on remodeling building on Fallsay, install heating plant, etc.; Clyde N. and Nelson Friz, Archts., Lexington Bldg.*

Md., Baltimore—Campbell Baking Co. of Maryland, 101 E. Fayette St., incorporated by Frank O. Taylor, Allen E. Moore and others.

Md., Baltimore—New Idea Paper Box Co., 119 W. Barre St., incorporated by Samuel W. Warren, Charles P. Grabill and Julius Schuman.

Md., Belair—The Belair Elevator Co., Inc., chartered by Milton A. Reckord, W. Wylie Hopkins and Clinton L. Reckord.

Md., Hagerstown—Alemite Lubricator Co. of Syracuse, Inc., capital \$75,000, chartered with William S. Smith, Stanley A. Wardle, W. Hunter Smith.

Md., Overlea—McMahon Express Corp., chartered by E. Stabler Maxwell, John D. Nock and Carville D. Benson, Jr.

Miss., Gulfport—Wood Products Co. organized under laws of Delaware by W. B. Lundy and S. L. McGlathery, both Pass Christian,

Miss.; T. W. Milner of Richton, Miss., and others; contemplate erecting plant to utilize yellow pine stumps in the manufacture of spirits of turpentine, pine oil, rosin and the residue in making high grade white paper under the Lundy process; also plans to establish plants in other sections.

Miss., Hattiesburg—The Day & Night Sign Co., capital \$10,000, incorporated by J. T. Mohler, Joe K. McInnes and W. M. Chambliss.

Miss., Jackson—Radios, etc.—Cook-Irby Co., organized by E. W. Cook, P. E. Irby.

Mo., Cape Girardeau—D. B. Howell of Niles, Ohio, reported interested in establishment of chinaware plant.

Mo., Perryville—International Shoe Co. interested in establishment of shoe factory.

Mo., St. Joseph—Western Tablet & Stationery Co., John N. Vincent, Mgr., Eleventh and Mitchell Sts., reported to have let contract to Lehr Construction Co., 1712 Frederick Ave., for addition to factory; 1 story and basement, brick and frame, cost \$25,000.

Mo., St. Louis—America Consolidated Press, 18 S. Sixth St., incorporated by Wm. H. O'Brien, Theo. Jenneman, Michael Deck.

Mo., St. Louis—Dept. of Public Utilities, Kurt Toensfeldt, Engr., contemplates erection of \$400,000 municipal laundry.

Mo., St. Louis—Conway-Manning Advertising Co. incorporated by M. A. McAuliffe, James R. Manning, Lawrence M. Conway.

Mo., St. Louis—Flagg Method Construction Co., capital \$30,000, incorporated by J. Houchlin, W. Felder, J. Boltes, 2247 Gravois St.

Mo., St. Louis — Lotz Construction Co., Dolph Bldg., capital \$50,000, incorporated by E. A. Lotz, Boroda and Charlach Sts.; H. Smith, J. L. Schneiderjohn.

Mo., St. Louis—Mississippi Glass Co., 4070 N. Main St., is having plans prepared by Carey & Esselstyn, 603 Hoffman Bldg., Detroit, Mich., for 1 and 2 story office building.*

Mo., St. Louis—Wholesale Radio Co. incorporated by Walter Ashe, Graham L. Tevis, Egbert Ashe.

Mo., St. Louis—New Marquette Baking Co., 1202 N. Kingshighway, capital \$25,000, incorporated by Geo. R. Gerarla, Geo. Theodorow, Louis E. Alewell.

Mo., St. Louis—America Consolidated Press incorporated by W. H. O'Brien, T. Jenneman, 1418 Hogan St.; A. Esswein.

Mo., St. Louis—Roofing Tile Manufacturing Co., incorporated by H. E. French, Harold J. LaLonde, 7121a Alamo St., J. L. English.

Mo., St. Louis—St. Louis Soap Co., 2840 Olive St., incorporated by P. Paull, L. R. Sturgis, M. Block.

Mo., St. Louis—H. J. Cole Co., 810 Spruce St., capital \$300,000, incorporated by P. S. Calhoun, E. M. Harford, L. H. DeForest.

Mo., St. Louis—Champion Electric Co., incorporated with J. B. Dobyne, Pres.; 6006 W. Calanne St., Edw. P. Fritschle, Sec.; manufacture electrical devices.

N. C., Asheville—C. E. Rees, Gen. Mgr. Hans Rees Sons, Inc., Avery St., will rebuild burned portion of tannery.

N. C., Charlotte—J. C. Peck & Co., capital \$100,000, incorporated by J. C. Peck, F. H. Mullis, P. O. Conrad.

N. C., Greensboro—City let the following contracts for construction and equipment of abattoir: To Angle & Moesser, American Bank Bldg., Greensboro, at \$36,925 for general contract; to Brecht Co., 1201 Cass St., St. Louis, Mo., at \$8450 for abattoir equipment; building will be 50x90 ft., 2 and one-half stories; equipped with sidetracks, runways and sheds for handling cattle and hogs; equipment will include hog de-hairing machine, scalding tank, rendering and drying machinery, special deodorizer, brine spraying equip-

ment and complete refrigeration; C. L. Brooks Engineering Co., Savannah, Ga., will supervise construction.*

N. C., Lenoir—Lenoir Mirror Co., capital \$30,000, incorporated by A. G. Garland, John Jonas.

N. C., Statesville—Piedmont Bakery Co., A. J. Salicy, Sec.-Treas., is having plant constructed on South Center St. between Bell and Garfield Sts. by Greir-Lowrance Construction Co., Statesville; 45x90 ft., 2 story and basement; brick construction, arranged to provide for future enlargements; approximately 12,000 sq. ft. of floor space; cost of building \$24,184; will install bread oven, cake oven, flour sifting outfit, dough divider; will sell \$15,000 common and \$15,000 preferred stock.*

N. C., Stonewell—Pamlico County Fair, capital \$50,000, incorporated by W. J. Swan, A. L. Bramlett, H. C. Johnston.

N. C., Winston-Salem—Grown Williamson Tobacco Co., 120 S. Liberty St., P. L. Withers, Sec., increased capital from \$1,000,000 to \$1,850,000.

Okla., Ardmore — Johnson Bros., capital \$25,000, incorporated by W. A. Thompson, J. P. Waugh, R. L. Bowman.

Okla., Oklahoma City—Oklahoma Tabley Manufacturing Co., increased capital from \$30,000 to \$50,000.

Okla., Oklahoma City—Cod-Vitamine Co., capital \$100,000, incorporated by Joseph K. Timmons, 308 W. 21st St., W. R. Samuel, both Oklahoma City; Albert C. Hunt, 1232 E. 18th St., Tulsa.

Okla., Tulsa—City and D. E. Johnson contemplate acquiring 40 acres of land for permanent fair grounds.

S. C., Greenville—Piedmont Supply Co., incorporated with John T. Lucius, Pres., 312 Wilton St.; Charles T. Stover, Sec.

Tenn., Johnson City—Store Fixtures—Thornton-Cameron Mechanical Store Corp., capital \$20,000, incorporated by W. C. Thornton, J. M. Cameron, H. M. Smith.

Tenn., Knoxville—Nichols Cigar Co., capital \$15,000, incorporated by Hal C. Nichols, V. H. Cross, W. D. Barbee.

Tenn., Memphis—Nu Klean Laundry & Dry Cleaning Co., 169 Serando St., capital \$100,000, incorporated by H. W. Black, J. T. Wyatt, H. E. Smith.

Tex., Austin—International Manufacturing Co., 814 E. Fourth St., will install carburetor wheels and planers and other machinery to dress and polish stone from rough quarried state into ornamental building stone; fragments and saw dust are ground into fine powder and manufactured into by-products such as putty, calcimine, etc.

Tex., Dallas—Dallas Auto Painting Co., capital \$32,000, incorporated by J. R. Bower, B. F. Grandstaff, 121 Foster St.; E. F. Wilson.

Tex., Dallas—Blue Diamond Co., capital \$50,000, incorporated by R. Carnohan, 407 South Crawford St.; Fred Bennett, A. C. Hamilton, Jr.; manufacture mortar and plaster.

Tex., Dallas—Beaux Arts Amusement Co., capital \$20,000, incorporated by C. N. Hilton, D. D. Oistott, Richard Haughton, 3725 Potomac.

Tex., Dallas—Archibald Hotel Co., capital \$230,000, incorporated by Arch C. Allen, 4814 Worth St., Don L. Sterling, G. P. Allen.

Tex., El Paso—El Paso-Texas Amusement Co., incorporated by C. N. Bassett, M. C. Edwards, J. P. Roman, 3005 Grant Ave.

Tex., Greenville—R. M. Emerson will establish plant for manufacture of hardwood polish.

Tex., Greenville—Perkins Printing Co., Tom. W. Perkins, Jr., Mgr. has acquired Campbell Review, and will operate.

Tex., Houston—Casmire Chemical Products Co., capital \$65,000, incorporated by F. B. Casmire, T. H. Crawford, E. G. Brown, 514 Baker Ave.

Tex., Houston—City Council will let contract to American-La-France Fire Engine Co., Elmira, N. Y., for fire apparatus, consisting of 1000 gal. capacity pumper and hose cart and aerial truck; cost \$26,063.

Tex., Nixon—Nixon Fair Assn., incorporated by R. B. Williamson, W. D. Moore, J. F. Wood, Jr.

Tex., San Benito—Edmund P. Williams, Georgetown, Tex., has acquired Weslaco News and will operate.

Tex., Sugarland—Imperial Sugar Co. reported to expend \$1,000,000 for buildings and machinery to increase output of plant; will add brown and soft sugars and convert by products into table syrup.*

Tex., Tyler—Crescent Laundry, capital \$20,000, incorporated by W. F. Jones, E. M. Andrews, Oscar Humphreys.

Va., Alexandria—Animated Sign Co., capital \$25,000, incorporated with Frank J. Merkin, Pres.; D. C. Hodg'n, Sec.

Va., Bristol—Herald Courier let contract to Fred Hayes, Bristol, for plumbing and heating for printing plant.*

Va., Bristol—King Printing Co. let contract to Fred Hayes, Bristol, for plumbing and heating in building on Shelby St.

Va., Charlottesville—Sensibaugh-Ritchie Electric Co., capital \$15,000, incorporated with J. F. Sensibaugh, Pres.; John S. Graves, Sec.

Va., Richmond—Contracting—W. P. Thurston Co., capital \$50,000, incorporated with W. P. Thurston, Pres.; R. W. Ellyson, Sec.

Va., Winchester—Valley Evaporator Co., H. L. Phillips, Mgr., will probably rebuild next year plant lately noted burned at loss of \$30,000.

W. Va., Clarksburg—Walk-Leiterbaum Co., Inc., will increase capital from \$20,000 to \$75,000.

W. Va., Huntington—Ashland Paint Co., E. W. Miller, Pres., 917 Twenty-second St., will erect \$35,000 plant for manufacture of "Black Mammy" metal preservative paints; 2 stories; brick, steel and concrete.

Motor Cars, Garages, Tires, Etc.

Ala., Birmingham—Milton's Highland Garage, incorporated with J. E. Milton, Pres., 1604 Tenth Ave. S.; D. L. Milton, Jr., Sec.-Treas.

Ark., Jonesboro—Standard Oil Co. will erect modern filling station corner Main and Matthews Sts.

Fla., Haines City—Filling Station—Edgar C. Pope, Lake Wales, Fla. has acquired site at Hinson and Tenth St., will erect filling station, Spanish type.

Fla., Melbourne—Auto Realty Co., capital \$25,000, incorporated with H. M. Jernigan, A. L. Eschbach, Sec.

Fla., Orlando—Garage—G. S. Hill Prop. of the Dixie Sales & Service Co., 252 South Orange St., will erect \$10,000 garage corner Church and Reel St., 100x183-ft, fireproof construction.

Fla., Sarasota—Filling Station—Byron Souders of Atlanta, Ga., reported to have purchased 96x100-ft. site at Osprey and Victory Aves.; will erect filling station, accessory shop and show rooms, estimated cost \$35,000.

Fla., Vernon—Vernon Motor Co., capital \$15,000, incorporated with C. B. Dunn, Pres.; J. Moss Flournoy, Sec.-Treas.

Ga., Atlanta—Automobile Hotel—Raymond Concrete Pile Co., 140 Cedar St., New York, has contract for piling used in construction of automobile hotel at 25 Ivy St.; wire from Lockwood, Greene & Co., Atlanta, Healey Bldg., also states, no further contracts yet awarded.

Ky., Ashland—Wurts Garage, J. W. Wurts, will erect garage at Seventeenth and Market Sts., 2-story and basement, 50x51 ft., L shape, reinforced concrete construction.

Ky., Lexington—Studebaker U-Drive-It Co., capital \$25,000, incorporated by R. S. Webb, Jr., 259 E. Maxwell St., E. T. Hopkins and Guy Huguélet.

Ky., St. Helens—St. Helens Motor Co., capital \$10,000, incorporated by Geo. S. Wanless, Wilson Summers and others.

Md., Baltimore—International Motor Truck Agency, Inc., 3419 Gwynns Falls Parkway, incorporated by Walter Miles, Harry R. Barnes, Charles T. Clayton.

Md., Hagerstown—Hagerstown Motor Co., O. P. Bohman, Pres., 117 Summit Ave., will erect \$50,000 addition to plant, 3-story, 50x150 ft., concrete construction.

Md., Silver Spring—Maryland Garage Co., contemplate erecting 1 or 2-story public garage building, estimated cost \$25,000; J. M. Faulconer, Archt.

Mo., Joplin—R. & S. Motor Co., 316 Virginia Ave., will erect new building at 312 Virginia Ave., 2 story, brick construction.

Mo., New Madrid—J. W. Montague Motor Co., incorporated by J. W. Montague, Geo. W. Montague and others.

Mo., Springfield—Garage—Geo. H. Townsend let contract to W. E. Burgin, 504 W. Olive St., to remodel the Frisco Garage building on East Olive St.; W. E. Foley, Archt., 773 E. Elm St.

Mo., St. Louis—Packard Motor Car Co., 2201 Locust St., let contract to Mid Continent Co., 1132 Arcade Bldg., for \$12,000 show room and service station, 1-story, 29x155-ft. tar and gravel roof steam heat.

N. C., Asheville—Automobile Hotel—E. D. Latta has acquired site on Penland St.; reported to erect automobile hotel in connection with other development.

N. C., Asheville—Webb Motor Co., Chas. Bruce Webb, Pres., 28 Spruce St. has plans for new building.*

Okla., Valliant—Valliant Motor Co., incorporated by S. E. Barnett, Valliant; S. B. Love and P. V. Love, both Idabel, Okla.

S. C., Greenville—Motor—W. C. Cleveland, 123 W. McBee Ave., and W. B. Ellis, Jr., 505 Pettigree St., will erect \$10,000 garage and service station at 408 W. Washington St., 50x90-ft., white brick, terra cotta, to be occupied by Greenville White Co.

S. C., Spartanburg—City Service Station, incorporated by Hunter Johnson, W. Main Street, and John C. Cathcart.

Tenn., Memphis—Ford Motor Co., Detroit, Mich., let contract to John Ruhlins at \$38,000 for sprinkler system at plant 1429 Riverside Drive.

Tex., Brownwood—Blackwell-McClelland Motor Co., capital \$25,000, incorporated by J. Blackwell, R. D. McClelland, L. C. Blackwell.

Tex., Corpus Christi—Krauss Motors, C. M. Krauss, local mgr., let contract to I. W. Birmingham, Amus Bldg., for fireproof sales and service building corner Chaparral and Powers St.; reinforced concrete frame with hollow tile curtain walls with veneer of maroon corduroy brick, imitation marble trim, concrete floor with glass finish; A. A. Calloway, Archt.*

Tex., Cushing—Sales and Service Station—

Lewis Holt Co., 303 Seventh St., organized with Lewis Holt, Pres.; M. G. Holt, Sec.; has 50x125-ft. brick building; wants complete equipment for authorized Ford sales and service station. (See Machinery Wanted—Garage Equipment; Automobile Accessories.)

Tex., Wichita Falls—Munger Automobile Co., capital \$34,000, incorporated by L. R. Munger, Philip L. Prather and Hugh E. Prather.

Va., Norfolk—Ford Motor Co., Detroit, Mich., let contract to Hitt & Brown, 137 W. Charlotte St., Norfolk, at \$100,000 for electrification of new assembly plant at Newton Park.

Va., Pulaski—Harris Motor Co. will erect garage addition; foundation begun.

W. Va., Huntington—Garage—C. C. Criser, 2625 Sixteenth St., will erect \$9000 garage at 418 Third Ave., brick and steel construction.

Railways

Miss., Tremont—Mississippi-Alabama Central Railway Co. has been authorized by an executive order issued at Jackson, Miss., to organize. Its proposed line is from Tremont, Miss., to Sulligent, Ala., about 25 mi. Those interested include M. D. L. Spearman, Paul D. P. Spearman and Dr. J. H. Stone, of Tremont.

Tex., Dallas—Southern Pacific Company has requested bids by Oct. 22, at Houston, Tex., for construction of 9 mi. of belt line at Dallas. George H. Lawrence, Houston, Tex., is Engr.

Road and Street Construction

Ala., Birmingham—State Highway Comn., Montgomery, plans building 12 or 13 mi. Bankhead Highway between Irondale and Leeds.

Ala., Birmingham—City Comn. has authorized concrete paving on 4 streets, at \$51,200, asphaltic concrete on 3 streets, at \$24,450.

Ala., Birmingham—Jefferson County Board of Revenue will chert 1 mi. road from Bessemer-Parkwood road to Camp Andrews.

Ala., Birmingham—Details under Land Developments.

Ala., Gadsden—Etowah County Board of Comms. will rebuild Attalla-Steele road.

Ala., Mobile—Mobile County Comms. plan building or improving concrete or other surfaced roads; will vote in Nov. on bonds.

Ala., Selma—State Highway Comn., Montgomery, plans building 10 mi. Highway between Clarke County and Kimbrough.

Ala., Wetlowee—State Highway Comn., Montgomery, will receive bids Nov. 12 for 17.128 mi. road between Chambers County line and Wetlowee, Randolph County, 193.-898 cu. yd. common and solid rock excavation, 42,441 lbs. steel reinforcing, 42,734 cu. yd. top-soil surfacing; also bridges, 180.-802 lbs. steel reinforcing, 1630 cu. yd. dry. wet and rock excavation; plans, etc., on file, and from Div. Engr. Lincoln Life B'dg., Birmingham; W. S. Keller, State Highway Engr.

Ark., Marianna—State Highway Comn., Little Rock, let contract to W. D. Barker Construction Co., 1042 N. Parkway, Memphis, at \$27,372 for earthwork, drainage structures and gravel surface on 4.053 mi. Marianna-South road.*

Fla., Arcadia—De Soto County Comms., will receive bids Oct. 25 for 118 mi. hard surfaced roads; C. E. McRae, Clk. of Board. Lately noted bids Oct. 6.

Fla., Bithlo—Bailey Development Co., S. P. Bailey, Bithlo, let contract to Prior & Dean, Haynes City, for 4½ mi. paved streets in Bithlo.

Fla., Bradentown—Details under Land Developments.

Fla., Crescent City—Town will receive bids Nov. 6 to furnish materials, equipment and labor for 47,000 sq. yd. street paving with necessary drainage, curb and gutter, etc.; plans, etc., from C. M. Austin, Clk., or H. S. Jaudon Engineering Co., Engrs., Leesburg, Fla., and Elberton, Ga.

Fla., Dade City—Pasco County Comms. let contract to J. A. Barthle, San Antonio, Fla., to surface 1½ mi. Highlands Dist. Road No. 9, from San Antonio south; received low bid from J. A. Barthle at \$3.58 per yd. to surface Road No. 7 of Gulf Special Dist. from Odessa to Denham; received low bid from Lutten Bridge Co., York, Pa., and Palatka, Fla., at \$10,400 for concrete bridges in Gulf Special Road and Bridge Dist.

Fla., Daytona—Details under Land Developments.

Fla., Dover—Details under Land Developments.

Fla., Eustis—Town, Henry W. Bishop, Mayor, will receive bids Oct. 30 to furnish material, equipment and labor for approximately 50,000 sq. yd. bituminous street paving, and 1200 sq. ft. vitrified brick street paving, with necessary drainage, curb, gutter, etc.; plans, etc., from George J. Dykes, Clk., and H. S. Jaudon Engineering Co., Elberton, Ga.

Fla., Fort Lauderdale—City will receive bids Oct. 21 for 10,000 sq. yd. paving, penetration macadam or Kentucky rock asphalt on native rock base, estimated cost \$26,000; plans, etc., from H. C. Davis, Engr.*

Fla., Fort Pierce—St. Lucie County Commissioners plan creating Special Road and Bridge Dist. and extending Orange Ave. west of Fort Pierce; contemplate \$50,000 bond issue.

Fla., Fort Pierce—Details under Land Developments.

Fla., Fort Pierce—City let contract to Hageart Construction Co., Miami, Fla., at \$33,946 to pave and hard surface streets, lay water and sewer mains, and install sewer system.*

Fla., Groveland—Town plans grading, paving, hard surfacing, and improving 9 streets; voted \$30,000 bonds. Address, The Mayor.

Fla., Lakeland—City plans repairing and widening certain streets; will vote Nov. 3 on \$75,000 bonds; Anton Schneider, City Mgr.

Fla., Miami—Details under Land Developments.

Fla., Miami—E. T. McKnight, Treas. 834 S. W. 12th St. Court, Miami Land & Fruit Co., plans grading and paving remainder of streets in Fair Lawn subdivision.

Fla., Palatka—City Comn. plans laying 20-ft wide asphalt paving on six streets in vicinity of Palma Celia Golf Assn. club house.

Fla., Sarasota—Details under Land Developments.

Fla., Sarasota—Details under Land Developments.

Fla., Tampa—Dr. B. M. Moodle, 725 S. Broadway Ave., will pave roads in 117 acre development; McElroy Engineering Co., Engrs., Gliddens Bldg., Tampa.

Fla., Tampa—City will receive bids Oct. 21 to grade, repair and pave 6 streets; R. D. Martin, City Engr.

Fla., Tampa—Details under Land Developments.

Fla., West Palm Beach—Palm Beach County Comms. let contracts for 2 roads: Military Trail, between Okeechobee road and West Palm Beach Canal. McVay Lindsay Co., Cocoa, \$38,372; system of short roads

west of Delray, East Coast Construction Co., \$18,072.*

Fla., West Palm Beach—Details under Bridges, Culverts, Viaducts.

Ga., Atlanta—City Comn., plans widening and extending Broad St.

Ga., Atlanta—City plans widening to 80-ft., Peachtree St. from North Ave. to Fifteenth St., and Courtland St. from Edgewood Ave. to Ponce de Leon. Address City Clerk.

Ga., Atlanta—Jones H. Ewing interested in opening 100-ft. boulevard from Carnegie Way and Ellis St. to Hemphill Ave.

Ga., Atlanta—City let contracts for 13,577 sq. yd. vibrolithic concrete paving, and 2808 sq. yd. asphalt paving on repaired macadam base, to Sam B. Finley, Jamison & Hallowell, and Meador Construction Co., at \$33,466.

Ga., Cloudland—Details under Land Developments.

Kentucky—State Highway Comn., Frankfort, contemplates receiving bids Nov. 25 on 10 roads: Harlan County, from Poor Fork to Lynch; Fulton County, from Hickman County line through Hickman and Fulton to Reelfoot Lake; Pike County, Mayor Trail from mouth of Shelby Creek to mouth of Robinson Creek; Floyd County, from Prestonburg to Pike County line; Carlisle County, Bardwell—Paducah road from Bardwell to McCracken County line; Ohio County, from Rockport to Beaver Dam and from Beaver Dam to Borah's Ferry; Henry County, 3½ mi. La Grange-New Castle road from Oldham County line toward New Castle; Boone County, rebuild road from Burlington to Florence; Perry County, from Jeff to Knott County line; Hopkins County, from Madisonville to Morton's Gap; Joe S. Boggs, State Highway Engr.

Ky., Ashland—City let contracts to McKenzie & Runyon to widen Thirteenth St., and to Sam L. Steele to improve, Bellefonte, Boyd and Pollard Sts.; H. L. Carroll, Clk.

Ky., Frankfort—Franklin County Fiscal Court, will receive bids Oct. 23 for ¼-mi. Mt. Vernon turnpike.

Ky., Mayfield—State Highway Comn., Frankfort, plans 6 mi. road from south of Sedalia to Tennessee line, to complete Mayfield to Paris road.

Ky., Paducah—City will receive bids this week for 20,000 ft. concrete sidewalks, 3370 lin. ft. concrete gutter, 3110 lin. ft. concrete curb; plans, etc., from E. R. Bradshaw, Jr., City Engr.

Ky., Whitesburg—Letcher County Fiscal Court will receive bids Oct. 17 for 6 mi. Mayking-to-Haymond section of Kentucky section of Kentucky-Virginia Highway.*

La., Baton Rouge—City plans rebuilding sidewalks on East Blvd.; H. Payne Breazeale, City Atty.

La., Baton Rouge—Details under Land Developments.

La., Greensburg—Louisiana Highway Comn., Reymond Bldg., Baton Rouge, will receive bids Nov. 12 to gravel 2.179 mi. Sec. A, Dixie-Scotland Highway, East Baton Rouge Parish; plans, etc., on file; J. M. Fourmy, State Highway Engr. See Machinery Wanted—Gravel.

La., Greensburg—Louisiana Highway Comn., Reymond Bldg., Baton Rouge, will receive bids Nov. 6 for 2 sections Greensburg-Clinton Highway, in St. Helena Parish: Sec. E, 2.73 mi. from end of present gravel road near Greensburg, to line between Road Dist. Nos. 2 and 3; Sec. F, 7.20 mi. from Sec. E, to Amite River; plans, etc., on file; J. M. Fourmy, State Highway Engr.

La., Lake Charles—City Commission let contract to A. M. Fromherz, New Orleans,

La., at \$2.38 per yd. for 60,000 to 70,000 cu. yd. concrete pavement; E. L. Gorham, City Engr. and Commr.

La.—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, received low bids from Winnfield Construction Co., Winnfield, for 2 roads in Grant Parish: 7.19 mi. Colfax-Pollack Highway, \$32,693; 3.22 mi. Pollack-Jena Highway, \$37,619.*

La., New Orleans — Details under Land Developments.

Md., Baltimore—City received low bid from Frederick D. Carrozza, 412 Garrett Bldg., at \$41,364 to grade and pave with cement concrete streets in Cont. No. 265-OANA.*

Md., Baltimore—Board of Awards will receive bids October 22 for 20,000 cu. yd. grading in Cont. No. 267-OA; plans, etc., from Paving Comm., Samuel A. Rowland, Acting Chmn., 214 E. Lexington St.; Mayor Howard W. Jackson, Pres. Board; Stuart Purcell, Ch. Engr.

Md., Cumberland—State Roads Comm., 601 Garrett Bldg., Baltimore, Md., will receive bids Oct. 21 for 1.65 mi. concrete along Oldtown road, from end of Cont. A-21, toward Patterson Depot; J. H. Mackall, Chmn.

Miss., Bay St. Louis—State Highway Dept., Jackson, let contract to Minder & Cain, Mankato, Minn. at \$219,000 to grade, drain and gravel surface 18 mi. between Bay St. Louis, Hancock County, and Louisiana State line.

Miss., Columbia—City plans grading and hard surfacing 3 streets; address J. Morgan LaFranc, representative of Henry A. Mentz, Const. Engr., Magnolia, Miss.*

Miss., Grenada—Grenada County Dist. No. 1, plans completing highway running eastward from Grenada, connecting with graveled highway running east and west through Calhoun County, will vote Nov. 15 on \$100,000 bonds; also Dist. No. 3 plans road building, will vote Nov. 15 on \$50,000 bonds. Address County Commrs.

Miss., Jackson—Hinds County, Board of Suprvs., let contracts for 2 gravel roads: 1 mi. in Fifth and Fifth Suprvs. Dist., Ferguson & Collins 2½ mi. Utica & Crystal Springs road, I. C. Gornia; County to furnish gravel.*

Miss., Jackson — Hinds County Board of Suprvs. plans hard-surfacing principal highways; contemplates \$400,000 bond issue.

Miss., Jackson—Hinds County Board of Suprvs., plans building roads; will call election Oct. 20 for \$2,000,000 bonds.

Miss., Mayersville—State Highway Dept., Jackson, let contract to Hart & Faulkner, Sartartia, Miss. at \$65,825 for 6½ mi. Vicksburg-Rolling Fork Road, Issaquena Co.*

Miss., Oxford—Lafayette County, Board of Suprvs. plan highway improvement; will vote Nov. 4 on \$675,000 bonds.

Miss., Rolling Fork—State Highway Dept., Jackson, let contract to H. E. McAdams, Rayville, La., at \$60,000 to grade and drain 10 mi. Vicksburg-Rolling Fork road, Sharkey County.*

Miss., Vicksburg—City let contract to Finch Co., Hattiesburg, Miss., to pave 16 streets.

Mo., Albany—City plans graveling 8½ mi. of streets; voted \$60,000 bonds. Address City Clk.*

Mo., Cape Girardeau—City let contracts to Keller & Haas, Cape Girardeau, at \$34,769 for seven additional blocks of paving.

Mo., Carthage—City let contract to Independent Gravel Co., at \$1.30 per sq. yd. for asphalt pavement on Grand St. from High-land to Fairview.*

Mo., Joplin—City, plans laying concrete

curbs and gutters on three streets; O. P. Mahoney, Commr. of Streets.

Mo., Kahoka—City plans paving Public Square with brick; W. B. Rollings & Co., Engrs., Kansas City.

Mo., Moberly—City is receiving bids to re-surface with hot-mixed asphalt, part of Coates and Fourth Sts. Address City Clk.

Mo., Neosho—City plans grading and paving Main and Hamilton Sts. Address City Clk.

Mo., Springfield — City let contract to Hedges-Weeks Construction Co. at \$2.04 per sq. yd. for concrete paving on Weaver Ave. between Madison and Grand; to Charles Bigsbee for walk on Poplar St. between Nettleton and Fort Sts., and Sherman Ave. from Webster to Frisco belt line; to Ralph McSweeney for concrete paving on Madison St. between South and Jefferson Aves., and to Henry Prosperi, 2133 Benton St., for walks on Travis Ave. between Turner and Kearney streets.

Mo., St. Louis—City plans expending \$100,000 to build driveway down center of McKinley Bridge; contemplates 40-ft. roadway on south side of bridge. Address City Clk.

Mo., St. Louis—City plans widening Olive St. from 60 to 100 ft. between Twelfth Blvd. and Channing Ave.; Clinton H. Fisk, Director of Streets and Sewers.

Mo., Springfield—City plans paving Lombard St. from New to Lexington, and Atlantic from Broadway to Kansas. Address City Engr.

Mo., Springfield—City let contract to Hedges-Weeks Construction Co., at \$3.65 per sq. yd. to pave with vertical fibre brick on concrete base, Olive St. from Main to Jefferson Ave.; also to curb Olive St.

Mo., Springfield—City let contract to V. E. Koch, at \$2.06 per sq. yd. to pave Missouri Ave., from Atlantic to Dale, and at 42 cents per lin. ft. for curbing.

Mo., Springfield—State Highway Comm., Jefferson City, plans improving 7 roads in Greene County: 16.541 mi. gravel from Springfield to Mount Vernon; 10.578 mi. graded earth from Springfield to Carthage; 3.368 mi. concrete, and .636 mi. graded earth from Springfield to Galloway; 4.506 mi. gravel from Galloway to Christian; 9.043 mi. gravel from Galloway to Webster County line; 14.790 mi. gravel from Springfield to Webster County; B. H. Piepmeyer, Ch. Engr.

North Carolina — State Highway Comm., Raleigh, will receive bids Nov. 12 for 9 roads: Wayne County, 14.3 mi. paving from Goldsboro to Wilson County line; New Hanover County, 8 mi. grading and bridges, from Wilmington to Wrightsville Sound; Robeson County, 12.7 mi. grading and bridges, from Lumberton to Boardman; Lincoln County, 2 sections; 9.98 mi. paving from Lincoln to Catawba County line; 5.03 mi. paving from Lincoln to Gaston County line; Stokes County, 13 mi. grading and bridges, from Forsyth County line to Danbury, via Walnut Cove; Yadkin County, 8.5 mi. grading and bridges, from Brooks Crossroads to Yadkinville; Haywood County, 7.3 mi. grading and bridges from Springdale to Transylvania County line; Swain County, 7 mi. grading and bridges from intersection of Routes 10 and 186, to Almond.

N. C., High Point—City will pave Barbee and Fourth Sts. Address City Mgr. Pickett.

N. C., Kingston—City contemplates extending Mitchell St. through North Kingston from Vernon to Rhodes Ave. Address City Clerk.

N. C., Lumberton—State Highway Comm., Raleigh, let contract to Gus Ginn, Inc., Gas-

tonia, for 14.08 mi. grading and topsolling, and to J. S. Bowers, Whiteville, for structures.*

N. C., Morehead City—Board of Town Commrs., plans additional street paving; authorized \$200,000 bond issue.

N. C., Yadkinville—State Highway Comm., Raleigh, let contract to L. L. Tindall Construction Co., Waterford, Wis., at \$482,528, to hard surface 10 mi. road from Yadkin River to Yadkinville.*

Okla., Claremore—Rogers County Commrs., will receive bids Oct. 28 to grade and construct culverts on road from Claremore to Tulsa County line, west of Catoosa; H. Tom Brown, Commr.

Okla., Guthrie—Logan County and State Highway Dept., Oklahoma City, contemplate system of hard surfaced roads connecting Guthrie with every other town in county. Address County Commrs.

Okla., Medford—Grant County Commrs., will receive bids soon to raise grade of Meridian Highway through County.

Okla., Perry—Noble County Commrs., will let contract Oct. 21 to build 10 mi. hard surface road from point north of city limits to Charley Leigh corner, 2 mi. south of Red Rock Creek Bridge; cost \$280,000. County and federal aid each to pay \$140,000.

Okla., Purcell—McClain County Commrs. plan building 7 mi. highway between Purcell and Paoli, near McClain and Garvin Counties line; state and federal aid; will also erect bridge over Walnut Creek at edge of Purcell, cost about \$16,000; plans building section of State Highway between Newcastle Bridge on Canadian River and Grady County line on Tuttle road; also road from Blanchard to New Castle Bridge, about \$80,000 available.

Okla., Tulsa—Tulsa County let contract for six 18-ft. concrete roads, bridges and culverts: 1-5/8 mi. from north line of Broken Arrow to Lynn Lane road, and 1 mi. north on Lynn Lane road, Highway Construction Co., Tulsa, \$47,025; 1 mi. Bixby-Okmulgee, Bert Gibbs Co., Tulsa, \$28,250; 3000 ft. Red Fork-Keystone, Highway Construction Co., \$15,000; 5/8 mi. south from Klennpool, Dan A. Burton Co., Tulsa, \$16,325; 1 mi. from Broken Arrow to cemetery, Gallamore Construction Co., Cushing, \$24,638; 1-1/8 mi. from Shell Creek Bridge near Wekiva, west to Shell Creek road, Tanner & Co., Tulsa, \$29,950; to E. G. Fike Construction Co., Tulsa, to widen Nickel Creek Bridge from 16 to 28-ft., near Oakhurst; same contractor at \$13,115 for 12 culverts in north end of County.

S. C., Chesterfield — Chesterfield County Commrs., will receive bids Oct. 28 for 5.722 mi. State Route 35, from McBee to Darlington County line, 30,214 cu. yd. common excavation, 14,079 cu. yd. sand-clay surfacing; plans, etc., on file and from State Highway Engr., Columbia.

S. C., Greenville—City let contract to Balenger Paving Co., to pave Easley Bridge road between Pendleton St. and city limits, 50-ft. wide; cost about \$7000; W. D. Neves, City Engr.

S. C., Greenville—Greenville County received low bid from J. M. Gregory & Co., Columbia, at \$230,495, to pave with plain concrete 6.4 mi. Greenville-Greer highway.*

S. C., Laurens — City Comm. plans hard-surfacing North Harper and improving other streets; contemplates \$100,000 bond issue.

Tenn., Carthage—City let contract to E. T. Lewis Construction Co., 1902 Elliott Ave., Nashville, Tenn. at about \$18,000, to pave several streets with rock asphalt on macadam base.*

Tenn., Chattanooga — City plans laying

sidewalk on Memorial St., and replacing old sidewalk on Oak St. Address Mayor Hardy.

Tenn., Cookeville — Putnam County Comms. plan completing road from corporate limits of Cookeville to Overton County line, via Algood; contemplate \$61,000 bond issue; also plan building road from corporate limits to courthouse, contemplate bond issue.

Tenn., Greenville — Greene County Court, appropriated \$36,500 to resurface Lonesome Pine Trail from Hawkins County line to North Carolina line; also appropriated \$9000 for building bridge over Nolachucky River to connect with Cocke County; Cocke County appropriated like amount.

Tenn., Huntsville — State Highway Comm. will receive bids October 31 for 16-in. slag on 14.24 mi. State Highway No. 31, between Morgan County line and Helenwood; also bridge on State Highway No. 31 over New River, between Morgan County line and Helenwood, three 99-ft. spans, and four concrete approaches; J. G. Crevelling, Commr.

Tenn., Knoxville — City will receive bids October 20 to build road in New City Hall Park, 2073 sq. yd. paving, 1730 lin. ft. concrete curb; plans, etc., from City Engr.; Alexander Harris, Director of Public Works.

Tenn., Knoxville — Alexander Harris, Director of Public Service will receive bids Oct. 20 to widen Union Ave. 10 feet between Walnut and Locust Sts.

Tenn., Memphis — Shelby County plans widening 8 or 10 mi. Walnut Grove road to 100 ft., through Red Acres, and joining Poplar, Madison and Union Aves. at Aulon. Address County Comms.

Tex., Amarillo — Potter County Comms. Court let contract to R. M. Durcan, at \$39,000 for 1 mi. brick paving, connecting St. Francis Highway with Filmore St. North Amarillo.

Tex., Anahuac — Chambers County plans 8 mi. road building; voted \$15,000 bonds; H. A. Gripon, County Engr.; Joe F. Wilson, County Judge.

Tex., Brenham — Washington County let contract to Womack Construction Co., Sherman, at \$37,987 for 18.21 mi. State Highway No. 36, completing McMillen Contract.*

Tex., Cameron — Details under Bridges, Culverts, Viaducts.

Tex., Dallas — City plans widening Akard St. between Commerce and Jackson Sts. Address City Clk.

Tex., Clarksville — Red River County, let contract to McGuire & Cavender, for 18-ft. concrete pavement on 2.66 mi. State Highway No. 5 from east line of Road Dist. No. 9 to Lamar County line, approximate cost \$180,000; J. P. Goode, County Engr.; Geo. Morrison, County Judge.*

Tex., Floresville — Wilson County will receive bids Nov. 6 for 4 sections of roads: 0.43 mi. gravel State Highway No. 81, San Antonio-Cuero road, from Old Sutherland Springs to point 3 mi. east of Stockdale, 132,142 cu. yd. earth roadway and borrow excavation; 87,152 sq. yds. 1-in. asphalt topping, 84,071 lbs. reinforcing steel; 14.52 mi. rock State Highway No. 16, San Antonio-Corpus Christi road, from Bexar County line to end of Road Dist. No. 3, 167,755 cu. yd. roadway and earth borrow excavation, 153,727 sq. yd. 1-in. rock asphalt topping, or reinforced concrete, 131,053 lbs. reinforcing steel, 2200 lin. ft. concrete curb and gutter; 9.06 mi. concrete State Highway No. 81, San Antonio-Cuero road, from point 3 mi. east of Stockdale to Gonzales County line, 150,661 cu. yd. roadway and borrow excavation, 111,974 lbs. reinforcing steel; 12.12 mi. gravel State Highway No. 81, San Antonio-Cuero road, from Bexar County line to Sutherland

Springs, 152,592 cu. yd. earth excavation, loose rock and borrow, 113,776 sq. yd. 1-in. rock asphalt topping, or 113,776 sq. yd. 1-in. Amesite paving, 81,859 lbs. reinforcing steel; F. E. Hess, County Engr., Box 272; J. E. Canfield, County Judge.

Tex., Hemphill — Hall County let contract to Austin Bridge Co., 1815 Clarence St., Dallas, at \$61,135, for 11.86 mi. State Highway No. 18; A. C. Hoffman, County Judge.

Tex., Hillsboro — Hill County will receive bids soon for bituminous treatment surface on 3.91 mi. State Highway No. 6; W. J. Van London, Engr. in charge; W. L. Wray, County Judge.

Tex., Houston — City received low bid from Scott Shambaugh, 203 Laurendon Bldg., at \$73,799 to pave West Grey Ave., and from Gulf Bitulithic Co., 701 Foster Bldg., at \$90,933 to pave Caroline Blvd.

Tex., Karnes City — Karnes County plans road building in Road Dist. No. 1; will vote Oct. 23 on \$150,000 bonds; O. N. Powell, County Engr.; D. O. Klingeman, County Judge.

Tex., San Antonio — City plans widening and straightening Bonham St. between Commerce and Crockett; let contract to Southwestern Bitulithic Co., to pave Aransas Ave.; will receive bids to pave Villita St.; I. Ewig, City Engr.

Tex., San Antonio — Bexar County plans regravelling Gonzales road, 18-ft. wide, from end of present surface treatment to County line, estimated cost \$25,000; R. E. Kilmer, Acting County Engr.

Tex., San Antonio — Bexar County Comms. let contract to Colglazier & Hoff, San Antonio, at \$110,610 to pave with asphalt 8.16 mi. Seguin road.*

Tex., Sherman — Grayson County plans road building in Pottsbore Road Dist.; will vote Oct. 18 on \$45,000 bonds; H. M. Scott, County Engr., Denison; R. M. Carter, County Judge, Sherman.

Tex., Sweetwater — Nolan County let contract to Brown-Abbott Co., Inc., Loraine, Tex., and 819 Wilson Bldg., Dallas, at \$29,482, to grade and construct bridges on 15 mi. State Highway No. 1, from Sweetwater to Mitchell County line; A. S. Mauzey, County Judge.*

Tex., Waxahachie — Ellis County, Italy Dist., plans highway improvements; voted bonds; W. A. Spalding, Engr.; H. R. Stovall, Judge.

Virginia — State Highway Comm., Richmond, received low bids for 7 road projects: Route 10, streets of Smithfield, Rumburg & Hill, Princeton, W. Va., \$20,436; Route 29, 3.71 mi. from Gloucester north, Maloney Paving Co., Washington, D. C., \$108,141; Route 35, 2.53 mi. from Petersburg south, and Route 31, 4.24 mi. south of Ritchies Store, Southern Construction Corp., Petersburg, \$131,511, net bid, plus 10%; Route 38, 3 mi. from Moss Neck toward Rappahannock Academy, C. B. Hester, Spring Garden St., Greensboro, N. C., \$50,617; Route 37, .56 mi. west of Lancaster Courthouse, Buttershill & Goode, Virginia, \$50,121; Route 31, 3.85 mi. from point south of Chappawamsic to point north of Stafford Courthouse, C. H. Maloney Paving Co., \$143,803.*

Va., Norfolk — City will receive bids this week to furnish material, labor, etc. for concrete curb and gutter and concrete corners and gutter on 5 streets, 9,760 lin. ft. curb and gutter; plans, etc., from Walter H. Taylor, 3rd Director of Public works.

W. Va., Charleston — City let contract to Andrews Asphalt Paving Co. to surface three streets with Trinidad, and to Board Duffield Co. to surface one street with concrete.

W. Va., Charleston — Kanawha County let

contracts for 2 roads: Fayetteville Construction Co., at \$67,900 to surface 6 mi. Dunbar-Sattes road; J. O. McDermitt, at \$30,026 to grade and surface with slag base, and penetration macadam top, Tyler Mountain road.*

W. Va., Huntington — City Comms. plan extending Eighth Ave. eastward from Chesapeake & Ohio Ry. shops.

W. Va., Welch — McDowell County Court let contract for 2 roads: From Coalwood Road to Town of Coalwood, Albert Brothers, Shawsville, Va., \$13,295; 2½ mi. Ashland-Cherokee road, White, Rich & Co., Princeton, at \$23,575; also for 2 bridges at Susanna, Perraldo & Jauntolo, Welch.*

W. Va., Wheeling — Ohio County let contract to Fayetteville Construction Co. at \$13,505 to grade 1.3 mi. Big Brier Creek road, Washington Dist.

Sewer Construction

Ala., Birmingham — City Comsn. authorized construction of \$11,600 sewer on Sixth Ave. and Eighth Terrace W.

Ark., Little Rock — Board of Comms. will receive bids Oct. 11 for sewer construction. (See Machinery Wanted—Sewer System.)

Fla., Bradentown — Details under Land Developments.

Fla., Daytona — Details under Land Developments.

Fla., Fort Pierce — Details under Water Works.

Fla., Frostproof — Details under Water Works.

Fla., Lakeland — City votes Nov. 3 on \$775,000 bonds for installing sewer system. Address The Mayor.

Fla., Miami — Details under Land Developments.

Fla., Sarasota — Details under Land Developments.

Fla., Sebring — City opens bids Nov. 10 to furnish material and construct sanitary sewer system and water works. (See Machinery Wanted—Water Works and Sewer System.)

Fla., Tampa — Details under Land Developments.

Ky., Louisville — Comms. of Sewerage Matt H. Crawford, Chmn., will receive bids Nov. 14 for construction of Central Relief Drain in Eighth St. from Ohio River to Broadway. (See Machinery Wanted—Sewer System.)

La., New Orleans — Details under Land Developments.

La., Shreveport — City will extend sewer and water works system. (See Machinery Wanted—Water Works and Sewer System.)

Ga., Cloudland — Details under Land Developments.

Mo., St. Joseph — City received low bid from E. F. Mignery, 1108 Bellevue St. for construction of Nineteenth St. main sewer.

Tex., Groveton — City contemplates voting on bonds for sewer improvements. Address The Mayor.

Tex., Livingston — City contemplates installing sewer system and disposal plant; may vote on bonds. Address City Clerk.

Tex., San Antonio — City let contract at \$12,000 for constructing Alamo ditch storm sewers.

Tex., Trinity — City voted \$35,000 sewer bonds. W. W. Murray, Mayor.*

Va., Roanoke — City Manager Hunter, considering installation of sewers in Norwich,

Northwest and Southeast; cost approximately \$30,000.

W. Va., Charles Town—City contemplates installing sewer system; Frank J. Laverty, Asst. Engr., State Board of Health.

Telephone Systems

Fla., Bradentown—Peninsula Telephone Co., W. U. Lathrop, Mgr., has acquired the Joplino Hotel building; later will remodel for central exchange, installing automatic telephone equipment, etc.

Fla., Fort Myers—M. Heitman, Pres. of the Lee County Telephone Co. is erecting exchange building, equipment all purchased; total expenditure approximately \$75,000.

Tex., Sherman—North Texas Telephone Co., increased capital from \$75,000 to \$115,000.

Tex., Texarkana—United Telephone Co., capital \$125,000, incorporated by A. C. Stuart, T. W. Offenhouser and Charles Millinger.

Tex., Waco—Long-Distance Telephone Co., capital \$200,000, incorporated with J. B. Earle, Pres., Waco; V. E. Chaney, Sec.-Treas., 3317 Penn St., Kansas City, Mo., will take over the Texas Long-Distance Telephone Co., the Texas Toll Lines Co., and other properties.

Textile Mills

Ark., Pine Bluff—Arkansas Textile Co., capital \$400,000, incorporated by Wm. Nichol, Garland Brewster, 110 W. 17th St.; J. L. Longino; contemplates leasing building at 803 W. Fifth Ave. and installing cotton spinning and knitting machinery; 10,000 spindles and knitting machines with capacity of 500 doz. garments daily.

Wire from Wm. Nichol states: "Arkansas Textile Co. organized; Wm. Nichol, Pres.; J. E. Boyce, Sec.; Leroy A. Beers, Treas. and Mgr.; building to be ready in 30 or 60 days; machinery to move at once; yarn and knitting to be in operation, we hope, 60 or 90 days; power furnished by Arkansas Light and Power Co. from Rammel Dam."

N. C., East Lumberton—Mansfield Mills, Inc., Lumberton, increased capital from \$1,000,000 to \$1,200,000.

Tenn., Kingsport—American Printing Co., owned and operated by M. C. D. Borden & Sons, Inc., Fall River, Mass., is proceeding with construction of first unit of cloth mill, consisting of 2 main buildings together with several minor ones, including heating plant, power substation, and water supply pumping plant; factory buildings will have total floor space of 381,352 sq. ft.; store house will have floor space of 77,088 sq. ft.; steel, glass, brick and concrete construction; capacity of 100,000 spindles; contract for 3,380,000 brick used in construction let to Kingsport Brick Corporation; for 16,000 bbls. cement let to local Clinchfield Portland Cement Co.; for 3,000,000 ft. of lumber to Citizens Supply Corp.; cost of building without machinery or equipment \$700,000; Wm. Holyoke, Supt. of Construction; George P. Gilmore, Ch. Engr. of company.*

Water Works

Fla., Bradentown—Details under Land Developments.

Fla., Coconut Grove—City has had plans prepared by Main Engineering Co., Daytona, Fla., for waterworks and distribution system; \$200,000 available; George A. Main, Consult. Engr.*

Fla., Daytona—Details under Land Developments.

Fla., Fort Pierce—City, C. J. Ryan, Mgr., let contract to Haggart Construction Co., Miami, Fla., for laying water and sewer main and sewer system.*

Fla., Frostproof—Town votes Nov. 17 on bonds for constructing water works, white way, city park, sewerage system. Address Town Council.

Fla., Miami Beach—City Council let contract to Pittsburgh-Des Moines Steel Co., 804 Curry Bldg., Pittsburgh, Pa., at \$18,900 for construction of 500,000 gal. water tower.*

Fla., Miami—City has begun construction of steel water reservoir, 146 ft. in diam. and 20 ft. high, capacity 2,500,000 gals.; Pittsburgh-Des Moines Steel Co., 804 Curry Bldg., Pittsburgh, Pa., Contrs.*

Fla., Miami—Details under Land Developments.

Fla., Pensacola—U. S. Navy Dept. will expend \$150,000 for installing water works at Naval Air station, including storage reservoirs with 20,000,000 gal. capacity, and drilling artesian wells.

Fla., Sarasota—Details under Land Developments.

Fla., Sebring—City opens bids Nov. 10 for furnishing materials and constructing water works system and sanitary sewer system. (See Machinery Wanted—Water Works and Sanitary Sewer System.)

Fla., Tampa—Details under Land Developments.

Ga., Athens—City votes Nov. 25 on \$33,000 bonds for water works. O. H. Arnold, Mayor.

Ga., Cloudland—Details under Land Developments.

La., New Orleans—Details under Land Developments.

La., Shreveport—City will extend water works and sewer system. (See Machinery Wanted—Water Works and sewer System.)

Mo., Kansas City—Fuller & Maitland, Const. Engrs., 600 Walnut St., Kansas City, are preparing plans and specifications covering items of construction in connection with building water plant and will submit same to Fire and Water Board about February, 1925.*

N. C. Davidson—City, W. H. Thompson, Clk., considering issuance of \$80,000 water bonds.

N. C., Greensboro—City, P. C. Painter, Mgr., will open bids Oct. 21 for pumps, boiler and pipe for water works. (See Machinery Wanted—Water Works Equipment.)

Okla., Hollister—Town, O. B. McFall, Clk., opens bids Oct 15 for water works system. (See Machinery Wanted—Water Works.)

S. C., Ehrhardt—Comms. of Public Works will receive bids Nov. 5 to construct water works system. (See Machinery Wanted—Water Works.)

S. C., Greenville—City will vote Nov. 4 on \$2,000,000 water extension bonds; G. C. Wells, Clk.*

S. C., Ninety-Six—Town Council is having water surveys made.

Tex., Brownfield—City has preliminary plans by Montgomery & Ward, Engrs., City National Bank Bldg., Wichita Falls, Tex., for water works system; may vote on bonds.

Tex., Groveton—City contemplates voting on bonds for water works improvements Address The Mayor.

Tex., Livingston—City contemplates voting on water bonds. Address The Mayor.

Tex., Port Lavaca—City voted \$48,000 bonds for erection of water works. Address City Clk.*

Tex., Trinity—City voted \$42,500 water works bonds. W. W. Murray, Mayor.*

Va., Edgewood—Edgewood Waterworks Co., incorporated with J. D. Logan, Pres., Salem, Va.; Rachel Miller, Sec., Edgewood.

W. Va., Rivesville—City voted \$50,000 water works bonds. Address City Clerk.

Woodworking Plants

Ala., Eden—Millwork—Langford Manufacturing Co., incorporated by H. T. Langford, John R. Dyke and others.

Fla., Jacksonville—Jacksonville Box Co., capital \$25,000, incorporated with A. Floyd, Pres.; C. Floyd, Sec., both Tampa, Fla.

Fla., Perry—Jenkins Furniture Co., capital \$25,000, incorporated with C. F. Jenkins, Pres.; T. R. Spivey, Sec.-Treas.

Ky., Louisville—Pipe Organs—Henry Pilcher's Sons, 918 Mason St., let contract to Geo. Rommell Co., of Louisville, for \$50,000 addition to plant, 3-story, 50x150 ft., brick and concrete; will install limited amount of woodworking machinery; Fred Erhart, Archt.

S. C., Moncks Corner—Berkeley Barrel & Basket Factory, capital \$5,000, incorporated by S. Behrman, Moncks Corner; F. B. Moore, Sr., Cordesville, S. C.; W. L. Stokes, Charleston, S. C.

FIRE DAMAGE

Ala., Mobile—Mobile Cooperage Co.'s abandoned plant on Three Mile Creek, estimated loss \$100,000.

Ala., Tusculumbia—St. Johns Catholic Church, Rev. Mr. McVeigh, Pastor.

Ark., Arkadelphia—Farmers' Union Warehouse; loss \$115,000.

Ark., Damascus—J. W. Henson's barn near Damascus.

Ark., El Dorado—Loading rack of Crusader Pipe Line Co.; loss not estimated.

Ark., Sheridan—C. D. Harris' cotton gin; estimated loss \$17,000.

D. C., Washington—Betty Way Shop in Lowe Building; loss \$30,000; address Betty Way, Propr.

Fla., Brooksville—Dwelling owned by J. C. Davant, Clearwater, Fla.

Fla., Daytona—White Bus Line Co.'s garage and buses; total loss about \$70,000.

Ky., Hopkinsville—Fire Department's central station; loss \$15,000.

La., Monroe—Hull house of Union Oil Co.; loss not estimated.

La., New Iberia—Bergerie and Voorhies' cotton gin and New Iberia Grain Co.'s building; loss \$100,000.

La., New Orleans—Residences of Jake Fears, Edw. Blume and John Jinks, all 5500 block Woodlawn St.; loss \$12,500; Gayoso Pleasure Club, St. Peter and N. Salcedo Sts.; loss \$4000.

La., Shreveport—Charles Hotel, operated by Mrs. Nora W. Sanders and owned by Charles Selber; loss \$35,000.

Md., Laytonsville—Geo. Mobley's barn and residence.

Miss., Clarksdale—W. K. Herrin's cotton gin; loss \$10,000.

Miss., Crystal Springs—Ellis Hotel owned by W. T. Ellis; loss \$30,000.

Miss., Richton—E. L. Miell's residence.

Miss., Utica—Utica Lumber & Gin Co.'s plant; loss not estimated.

N. C., Asheville—Portion of Hans Rees Tannery; loss not estimated.

N. C., Silver City—Oak Manufacturing Co.'s warehouse; address J. C. Lane; loss \$14,000.

N. C., Wilmington—Plant of Armour Fertilizer Works at Navassa; loss not estimated; main office, Chicago, Ill.

N. C., Wilmington—Automobile salesroom and repair plant of T. D. Piner, 215 Market St.; estimated loss \$75,000.

S. C., Calhoun Falls—W. D. Busby's residence near Smith's Crossroads, about 5 miles from Calhoun Falls.

S. C., Columbia—W. B. Moore & Son's store near Columbia.

S. C., Spartanburg—Oil tanks of Blackburn Oil Co.; loss not estimated.

Tenn., Elizabethton—School building at Valley Forge; loss \$10,000; address Carter County Board of Education.

Tenn., Memphis—Residence on Graham Ave. about 2 miles east of Memphis, occupied by I. W. Powell, owned by Mrs. J. P. Kimbrough, 1460 Madison St.

Tenn., Puryear—Bud Miller's residence, south of Puryear.

Tex., Brookeland—Sabine Mercantile building; Eversol Hotel; Brookeland State Bank; total loss \$30,000.

Tex., Clarksville—A. M. Graves' warehouse; loss \$60,000.

Tex., Dallas—J. W. Jones, 1411 S. Ervay St., grocery store; loss \$10,000.

Tex., Dallas—Texas Hosiery Mills, Hughes

Circle and South Ervay Sts.; loss not estimated.

Tex., Houston—Residences of J. A. Brown and Mrs. A. F. Dreese; Church of God parsonage, Rev. M. B. Boucher, Pastor; loss \$15,000.

Tex., Kemp—L. B. Barguss' electric light plant and garage. P. G. Thornberry's grocery store, J. M. Lundry's cafe; total loss \$50,000.

Tex., Mexia—Mexia General Hospital. 2 living and apartment houses; loss \$20,000.

Tex., San Antonio—Portion of Grayburg Oil Co.'s refinery.

Tex., Texarkana—Texarkana Cotton Compress Co.'s plant; loss \$500,000.

Tex., Wharton—R. E. Vinyard's residence, Burleson St.; loss \$20,000.

Va., Dayton—Dan Young's bank barn near Dayton.

Va., Pulaski—Double barn of J. W. and William Fagg.

Va., Winchester—Valley Evaporator Co.'s plant in North Winchester; loss \$18,000.

W. Va., Davy—Residences of J. T. Segler, D. D. Parks and B. C. Galimore; loss \$15,000.

W. Va., Iaeger—Garage of Iaeger Gas & Oil Co.; Lee Perdue & Son's store.

W. Va., Keyser—Farm Bureau warehouse of Mineral County; address B. F. Fhrush, Mgr.

W. Va., Wheeling—Bonita Art Glass Co.'s plant in East Wheeling; loss \$150,000.

Md., Frederick—Hamme & Witman, City Bank Bldg., York, Pa., are preparing plans for 2-story stone bank building.

Mo., Jefferson City—First National Bank will raze church structure, Madison and High Sts., and erect bank building; probably 2 stories; work to start in spring.

S. C., Clinton—Thornwell Orphanage, L. Ross Lynn, Pres., has received gift from friend for erecting \$10,000 granite office building; plans in progress and work to start soon.

S. C., Columbia—State, Thos. G. McLeod, Gov., Malcolm Miller, Sec., Sinking Fund Comm., will erect fireproof State office building, Senate and Sumter Sts.; 6 stories, 100x180 ft., composition and concrete floors, concrete foundation, Spanish and promenade tile roof, hollow and interior tile, metal doors, vaults, mail chutes, vault lights, ventilators, steel sash and trim, wire glass, 2 passenger and 1 freight elevator; cost, including site, \$500,000; Harold Tatum, Archt., Columbia, advises will give information later regarding date of opening bids.*

S. C., Sumter—Drs. Lemmon, Dunn, Weinberg and Shaw will erect office building; Wilson, Berryman & Kennedy, Archts., Wilson and Gastonia, N. C., and Columbia, S. C. Contract let October 21.

Churches

Ala., Florence—First Christian Church will remodel and erect Sunday-school addition. Address The Pastor.

Ala., Tuscaloosa—Mennonist Memorial Baptist Church will erect \$40,000 auditorium and \$45,000 Sunday school building; work to start about Jan. 1. Address The Pastor.

Ark., Hot Springs National Park—St. Lukes P. E. Church, Rev. C. F. Collins, Rector, is having plans prepared by Thompson & Harding, Southern Trust Bldg., Little Rock, Ark., for building to replace burned structure, Spring and Cottage Sts.*

D. C., Washington—Fifth Baptist Church, Dr. John E. Briggs, Pastor, 633 F St. S. W., will erect \$50,000 addition to Sunday school as memorial to J. J. Darlington after plans by L. J. Palmer, 84 V St. N. W.; 2 stories and basement, 60x85 ft., brick.*

Mo., Kansas City—Presbyterian Church of the Covenant has permit to erect building, 3815 E. 59th St. Address The Pastor.

N. C., Chapel Hill—Methodist Episcopal Church South, Dr. Walter Patton, interested, will receive bids Nov. 6 at office of Atwood & Nash, Inc., Archts.-Engrs., Chapel Hill, for building; plans and specifications from Archts.

N. C., Mars Hill—Baptist Church has preliminary plans in progress by M. E. Parmelee, 606 S. Gay St., Knoxville, Tenn., for 2-story and basement building; cost without furnishings and equipment, \$60,000, brick foundation, concrete floors.*

S. C., Abbeville—Methodist Church will erect building on site of present structure; cost \$60,000. Address The Pastor.

S. C., Columbia—Ebenezer Lutheran Church, Dr. C. L. Kibler, Chmn., Bldg. Comm., selected by Walter H. Thomas, Otis Bldg., Philadelphia, Pa., as architect and J. B. Urquhart, Columbia, as associate architect for new church and parsonage and enlarging present Sunday school; cost \$150,000.*

S. C., Columbia—First Presbyterian Church, Dr. W. D. Melton, Pres. University of South Carolina, Chmn., Bldg. Comm., will receive bids Oct. 18 to erect Sunday-school building, remodel Smith Memorial Chapel and enlarge main auditorium; will retain Gothic design; cost \$250,000; R. H. Hunt Co., Archt., James Bldg., Chattanooga, Tenn.*

S. C., Spartanburg—Majority Baptist

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ark., Barton—Knights of Ku Klux Klan of Phillips County, W. W. Anderson, Sec., Helena, Ark., plan to erect klavern to seat 4000; fireproof, corrugated iron on concrete foundation, electric lights; auditoriums for men's and women's Klans; cost not determined; contract to be let in 60 days.*

Fla., Miami—Harvey Seeds Post, American Legion, has working drawings under way by Chas. P. Nieder, Archt., and L. R. Patterson, R. L. Weed, A. D. Zink, Asso. Archts., for fireproof club and memorial building; cost \$125,000, 3 stories, 70x100 ft., oak, tile and concrete floors, concrete foundation, tile roof garden, hollow and interior tile, metal doors, ventilators, ornamental terra cotta, steel sash and trim, wire glass; equipment, furnishings, etc., \$2500.*

Fla., Orlando—Lodge No. 69, A. F. & A. M., will erect \$60,000 modified Spanish type temple, E. Central Ave. near Rosalind Ave.; 65x102 ft., 3 stories, white stucco; store, kitchen, etc., on first floor, 56x64-ft. lodge room with 9-ft. balcony on second floor, lodge rooms on third; F. H. Trimble, 117 N. Main St., Archt., Orlando.

Ky., Lexington—W. L. Dawson, Chmn. Bldg. Comm., Phoenix Lodge No. 25, K. of P., advises they are not ready to build \$25,000 lodge building for which bids were lately noted to be opened Sept. 1; 3 stories, hardwood floors, slate roof, stone foundation, equipment, furnishings, etc., \$2500; Arthur Giannini, Archt., 417 Georgetown St., Lexington.*

Md., Baltimore—Knights of Columbus, Wm. S. Aumen, Jr., Pres., 107 E. Lombard St., has low bid for \$1,000,000 clubhouse, Madison and Cathedral Sts., from Frairie Brothers & Halgley, 19 W. Franklin St.; plans to be revised

and new bids due Oct. 21; Geo. R. Callis, Jr., Archt., 611 American Bldg.; Clough & Molloy, Harford Rd., lately noted contr. for stone, all Baltimore.*

Md., Forest Glen—Forest Glen Council, K. of C., W. A. Pierce, Chmn., Bldg. Comm., Woodside, Md., plans to erect \$25,000 headquarters building; 2 stories, brick; Faulconer & Proston, Archts., Silver Springs, Md.

Miss., Meridian—Young Men's Christian Assn., S. H. McClark, Sec., Chamber of Commerce, interested, has accepted plans by P. J. Krouse, Meridian, for \$200,000 building.*

Mo., Branson—W. R. Draper, 1300 Federal Reserve Bldg., Kansas City, Mo., is interested in erection of \$50,000 hunting and fishing club by Missouri Masonic organizations.

N. C., Kannapolis—Cannon Manufacturing Co. has broken ground for additional Y. M. C. A. building.

Tenn., Nashville—Ku Klux Klan, J. O. Clark, Kilgraph, 103 S. 13th St., purchased 15-room dwelling; will erect outdoor klavern to seat 6000, etc.; cost \$60,000.

Tex., Panhandle—Carson Lodge No. 1167, C. L. Upham, Sec., will erect brick and stone lodge building; 2 stories and part basement, 30x140 ft.; Kerr & Walsh, Archts., Amarillo, Tex.; bids opened Oct. 15 at Panhandle Bank.

W. Va., Wayne—Wayne Masonic Lodge, P. P. Lester, Chmn. Bldg. Comm., Fort Gay, W. Va., will erect \$50,000 temple; 3 stories and basement, 45x60 ft., brick; L. J. Dean, Archt., 604 Sims Kellar Bldg.; King Lumber Co., Contr., 417 Seventh Ave., both Huntington, W. Va.

Bank and Office

Fla., Sarasota—Andrew McAnsh is reported to erect office building, Palm Ave. and Williams St.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Church will erect \$25,000 building, S. Liberty and E. Hampton Sts.; brick veneer. Address The Pastor.

S. C., Sumter—First Presbyterian Church will erect manse; Wilson, Berryman & Kennedy, Archts., Wilson and Gastonia, N. C., and Columbia, S. C.

Tex., San Augustine—John D. Clarke, Chmn. Methodist Church Bldg. Comm., advises will not remodel building until after Jan., 1925.*

Va., Covington—Emanuel Episcopal Church, G. L. Miller, member Bldg., Comm., plans to erect church on site of present structure; may also erect parish house; stone or brick; O. L. Edwards, Archt., Covington; bids to be received on both structures.

Va., Richlands—Methodist Church, Rev. Wm. A. McKee, Pastor, will erect brick building.

W. Va., Clarksburg—Holy Rosary Church, Rev. P. A. Sikora, Pastor, E. Pike St., is having plans for \$25,000 building prepared by A. Bretternitz, Fordyce Bldg., 1 story and basement, 40x86 ft., brick and tile, stone front.

City and County

Ga., Savannah—Fire Station—City, Walter S. Blanton, Fire Chief, plans to erect fire station near Estill and Waters Ave.

Md., Baltimore—Library—Enoch Pratt Library, Dr. Bernard C. Steiner, Librarian, Mulberry and Cathedral Sts., plans to erect \$45,000 branch library, Belair Rd. and Quick Ave. city appropriation will probably be available; library to be equipped out of Carnegie fund.

Mo., St. Louis—Completing Jail—City, E. R. Kinsey, Pres., Board of Public Service, is considering completing fifth floor of city jail; cost about \$75,000.

N. C., Rutherfordton—City Hall—City is reported excavating for city hall contract to be let soon. Address The Mayor.

N. C., Greensboro—Fire Station—City, P. C. Painter, City Mgr., is having plans prepared by C. C. Hartmann, Jefferson Bldg., Greensboro, for central fire station, Greene St. near Bellemead St.; 2 stories, brick and concrete; will install central fire alarm system and fire equipment.

Okla., Ada—Courthouse—Pontotoc County will vote Nov. 4 on proposition to erect \$175,000 courthouse. Address County Comms.

S. C., Columbia—Courthouse—Richland County defeated \$500,000 courthouse bonds.*

S. C., Mullins—Municipal Building—City, R. K. Williams, Mayor, will receive bids on revised plans Oct. 16 for municipal building to contain clerk's office, courtroom, council chamber, fire station and guard house; brick, concrete, frame, Barrett roof; plans at Builders Exchange, Columbia, S. C., or at office W. D. Harper, Archt., Florence, S. C.*

Tenn., Greeneville—Jail—Greene County, G. M. Mitchell, Chmn. County Court, will erect \$50,000 jail.*

Tex., Dallas—Shelter Houses—City will erect 2 Spanish type shelter houses, Cole and Randall Parks; cost \$5000 each; Flint & Broad, Archts., Melba Bldg., Dallas.

W. Va., Clarksburg—Fire Station—City, Harrison G. Otis, City Mgr., is considering calling election on fire station bonds.

W. Va., Pineville—Jail—Wyoming County Court is considering erecting jail.

Dwellings

Ala., Birmingham—W. F. Haley, 8th Place and 8th Terrace, West, will erect residence.

Ala., Birmingham—R. E. Harris, 654 Tappan St., will erect residence, 43rd St. South, and Overlook Rd.

Ala., Birmingham—W. C. Johnson, 3127 Eleventh St., N., will erect residence, 13th Ave. and 34th St.

Ala., Birmingham—Roscoe E. Smith, 910 N. 43rd St., will erect residence, 1701 28th St.

Ala., Birmingham—Blaine Bronnell will erect \$12,000 residence, 41st St. and Chff Rd.

Ala., Birmingham—Nelson Realty Co., 2030 Third Ave. N., will erect two \$11,000 dwellings in vicinity of Linwood Rd. and 9th Ave., South.

Ark., Eureka Springs—W. W. Bancroft, Pres. American Can Corp., 104 S. Michigan Ave., Chicago, Ill., will erect residence on 10-acre tract in Mill Hollow.

Ark., Little Rock—K. E. N. Cole, 4701 K St., will erect \$10,000 two-story stucco residence, 2217 Lee Ave.

Ark., Little Rock—C. C. Collie, 116 Brown St., will erect brick veneer residence, 124 Pearl St.

Ark., Little Rock—Johnson & Dickenson, 1223 Wolfe St., will erect brick veneer residence, 609 N. Pine St.

Ark., Little Rock—H. I. Alexander will erect residence, 124 Pearl Street.

Ark., Little Rock—Bracy Real Estate & Building Co., Exchange Bank Bldg., will erect residences, 2012 Schiller and 3318 W. Markham Sts.

Ark., Little Rock—L. B. Davis, 2412 Schiller St., will erect 2-story residence, 305 Crystal Ave.

Ark., Mountain Home—Ira Paul will erect bungalow.

D. C., Washington—Breuninger & Pederson, 1627 K St. N. W., will erect 14 dwellings, 10th and Hamlin Sts. N. E.; 2 stories, 20x30 ft., brick; total cost \$110,000; Geo. T. Santmyer, Archt., 1415 K St. N. W., Washington.

D. C., Washington—D. J. Dunigan, 1317 New York Ave. N. W., will erect 27 dwellings, 508-38 and 509-25 Ingram St. N. W.; 2 stories, 18x30 ft., brick; total cost \$150,000; Geo. T. Santmyer, Archt., 1415 K St. N. W., Washington.

D. C., Washington—R. G. Taylor, 317 Interstate Commerce Comm. Bldg., 18th and Pennsylvania Ave. N. W., will erect 2-story and basement residence, Silver Springs; 28x32 ft.; Ye Plannery, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.

D. C., Washington—Mrs. V. V. Weems, care Porter & Lockie, Transportation Bldg., 17th and H Sts. N. W., will erect \$35,000 residence and garage, Wyoming Ave. and 24th St. N. W.; 2 stories and basement, 37x71 ft., hollow tile and stucco; bids opened Oct. 14.

Fla., Bradentown—H. E. Mower plans to erect duplex residence, Ohio Ave. near Richland Ave.

Fla., Coconut Grove—Nathaniel Greene Herreshoff, Miami, plans to erect winter residence.

Fla., Daytona Beach—C. E. Banks, Wildwood, N. J., and Daytona, Fla., plans to erect number of dwellings in Daytona and Seabreeze.

Fla., Fort Myers—Dr. F. E. Michenor and W. F. Rowe, St. Petersburg, Fla., plan to erect 100 dwellings on 60-acre tract.

Fla., Fort Pierce—E. W. Ayres, Fort Wayne, Ind., plans to erect number of dwellings in connection with development.

Fla., Jacksonville—H. F. McAden will erect \$15,000 two-story brick veneer dwelling, Riverside Ave.

Fla., Larkins—Jas. E. Svehla will erect \$10,000 to \$12,000 residence on 10-acre tract 1 mile west of Larkins; 2 stories, 38x38 ft.,

native rock and stucco, porches; install electric light and water plants.

Fla., Miami—E. A. Theed will erect \$10,000 residence, Seminole St., Biscayne Park Terrace.

Fla., Miami—Geo. Whitener, 1358 W. Flagler St., will erect \$50,000 residence, Crystal Bluff sub-division.

Fla., Miami—John Benedik, Mooney Ave. and Dixie Highway, Little River, Fla., will erect dwelling, Everglades Ave. near N. W. 7th Ave. and make other improvements.

Fla., Miami—J. E. Hines will erect \$10,000 to \$12,000 two-story residence, Shenandoah.

Fla., Miami—T. O. DuPree, 1314 N. W. Seventh St., and Dr. C. S. Hassell are having plans drawn by J. C. Gault, Real Estate Bldg., Miami, for 11 six-room concrete block and frame bungalows, N. W. 25th Ave.; Portland Place; cost including site, \$5000 to \$5500 each.

Fla., Miami—W. H. Kaiser will erect \$15,000 residence, S. W. 2d St.

Fla., Sarasota—Spence Olson will erect residence on Siesta Key.

Fla., Sarasota—Owen Burns will erect 8 dwellings, Julia St. near Merrill St., Washington Park addition; cost \$5000 each.

Fla., Sarasota—B. R. Rhodes, Hopkinsville, Ky., and H. S. Hale, Princeton, Ky., will erect 8 stucco dwellings and 2 or more 4 and 8-room apartment houses.

Fla., Sarasota—Harry Rigby will erect 7 concrete block and stucco dwellings, Bungalow Hill; to sell for \$8500 to \$12,500 each.

Fla., Seabreeze—C. E. Banks, Wildwood, N. J., and Daytona, Fla., plans to erect number of dwellings. (See Buildings Proposed—Dwellings, Fla., Daytona Beach.)

Fla., St. Augustine—Geo. W. Bassett, 71 Orange St., plans to erect residence.

Fla., Tampa—D. P. Davis, care D. P. Davis Properties, Inc., Warner Bldg., will erect \$100,000 residence for personal use; will also erect thirty \$10,000 to \$50,000 dwellings in connection with development of Davis Islands; ultimate plans call for erection of 300 dwellings.

Fla., Tampa—Joseph P. White, Director of Sales, D. P. Davis Properties, Inc., will erect \$50,000 residence on Davis Islands.

Fla., Tampa—A. C. LeClaire will erect \$10,000 residence, 1103 S. Dakota Ave.

Fla., Winter Haven—J. R. Ostrander will erect number of dwellings; first to be in Edgewood addition; stucco.

Fla., Winter Haven—R. D. Sage, care Winter Haven Citrus Exchange, plans to erect bungalow, Pine Ave. East, and 1st St.

Ky., Bulan—Ajax Coal Co. will erect 12 miners' dwellings contract by Oct. 15.

Ky., Bulan—Lott's Creek Coal Co. will erect 10 miners' dwellings; contract within 2 weeks.

Ky., Fleming—Chas. Howard will erect residence; contract at once.

Ky., Hazard—L. H. Hubbard will erect \$10,000 residence; contract by Oct. 14.

Md., Baltimore—Dr. Walter B. Swinski, 1740 Eastern Ave., let contract to John Hiltz & Sons Co., 343 St. Paul St., for \$20,000 residence, Juniper Rd. near 39th St.; 2½ stories, 30x40 ft., brick; Edw. Palmer, Jr., Archt., 313 N. Charles St., both Baltimore.

Md., Baltimore—Beverly Hills Corp., 4601 Harford Rd., will erect 6 dwellings, N. W. side Arabia Ave. near Gridiron Rd.; 28x27x28 ft.; total cost \$35,000.

Md., Baltimore—Maurice Swerdlin, 1904 E. Baltimore St., will erect 4 brick dwellings, N. W. cor. Baker St. and Thomas Ave.; 2 stories; total cost \$12,000.

Md., Baltimore—Ella W. Brown, 2743 N.

Calvert St., will erect \$15,000 residence, S. side Greenway near Milbrook Rd.; 2½ stories, 39x29x33 ft., brick.

Md., Baltimore—F. S. Pearson, Treas. James R. Armiger Co., 310 N. Charles St., will erect \$25,000 residence and garage, 2½ stories, about 34x40 ft., brick; E. L. Glidden, Jr., Archt., American Bldg., Baltimore.

Md., Baltimore—J. L. Robertson, 3020 St. Paul St., will erect \$32,000 residence and garage in Guilford; 2½ stories, brick; Edw. L. Palmer, Jr., Archt., 513 N. Charles St., Baltimore.

Md., Baltimore—Isaac C. Rosenthal, 3411 Holmes Ave., will erect 98 two-story brick dwellings, E. side Rosedale St. near Lanvale St., E. and W. sides Rosedale near Franklin Rd. and E. side Lower Ellicott Driveway near Franklin Rd.; total cost about \$356,000.

Md., Baltimore—John B. Royer, 113 Deepdene Rd., will erect \$13,000 residence and garage, E. side Edgevale Rd. near Deepdene Rd.; 2½ stories, 36x30x32 ft.

Md., Little River—Fred P. Bowles will erect \$13,000 Spanish type residence, Dixie Highway, Pasadena Park, north of Little River; 2 stories, concrete and tile, oak floors and trim, 2 baths; Martin L. Hampton and E. A. Ehmann, Asso. Archts., both Congress Bldg., Miami, Fla.

Mo., Cape Girardeau—Chas. Blancet plans to erect residence, Broadway and Perryville Rd.

Mo., Kansas City—A. F. Coghenour will erect residence, 6829 The Paseo.

Mo., Kansas City—College Hill Development Co. will erect dwelling, 2419 Campbell St.

Mo., Kansas City—Earl C. Hallar, 5929 Brookside St., will erect dwellings, 2415-17 E. 67th St.; total cost \$10,000.

Mo., Kansas City—A. N. Horstman will erect 3 dwellings, 5103-05 E. 39th and 3903 Vinyard Sts.; total cost \$10,000.

Mo., Kansas City—Emil J. Schutzel, 4212 Virginia St., will erect dwellings, 5531-37 Euclid St.; total cost \$15,000.

Mo., Kansas City—Herman L. Snitz, 426 Bellefontaine St., will erect dwelling, 5729 Holmes St.

Mo., Kansas City—Dr. R. J. Rinehart, Kansas City Western Dental College, 10th St. and Troost Ave., is having plans prepared by V. J. DeFoe, 203 Bruening Bldg., Kansas City, for \$30,000 residence, 57th St. and Bellevue Ave., Country Club Ridge; 2½ stories and basement, 36x30 ft., brick, stone and stucco.*

Mo., Springfield—C. B. Anderson, 820 Holland St., will erect residence, 451 Loren St.

Mo., Springfield—W. H. Hunter, 424 W. Madison St., will erect dwelling, 500 block W. Madison St., and 1 at W. Madison and Market Sts.; total cost \$10,000.*

Mo., Springfield—Leo A. Petterson will erect residence, 812 S. Fremont St.

Mo., Springfield—R. L. Toombs, Sr., will erect \$10,000 brick and tile residence, 791 Delma St.

Mo., Springfield—A. F. Wickersham, 907 N. Grant St., will erect brick and tile residence, 940 Kimbrough St.

Mo., Springfield—Members of Rainbow Fish and Hunting Club, M. P. Nibler, Pres., Springfield, will erect about 20 cottages and clubhouse 4 miles north of Springfield.

Mo., St. Joseph—August Stuebner, care Stuebner Dry Cleaning Co., 1105 S. 18th St., will erect \$10,000 residence, 1920 S. 20th St.; 1½ stories and basement, 28x34 ft., brick and stucco; Rudolph Reim, Archt., 1111 Ashland Ave., St. Joseph.

Mo., St. Louis—Brinkop Real Estate Co., 619 Chestnut St., will erect 15 bungalows, Grace and Bingham Aves.; 1 story and basement, brick, cost \$6000 each; E. Lantz, Archt., 207 Wainwright Bldg., St. Louis.

Mo., St. Louis—E. Engel, Arcade Bldg., will erect \$15,000 residence, 3140 Longfellow Blvd.; 2 stories, 37x27 ft., brick; C. H. Detenlin, Archt., 705 Clive St.; J. B. Williamson, Contr., 7039 Waterman Ave., both St. Louis.

N. C., Charlotte—Home Real Estate & Guaranty Co., 219 N. Tryon St., will erect 3 dwellings, 208 Bromley Rd., Myers Park; 2005 E. 5th St., Rosemont, and 220 Greenway, Rosemont; 7 rooms, brick veneer; total cost \$23,250.

N. C., Charlotte—H. C. Sherrill Co., 34 S. Tryon St., will erect 10 dwellings, Kellinworth Ave., Greenwood Cliff St. and Harding Place; 5 and 6 rooms, frame and stucco; total cost \$59,000.

N. C., Greensboro—W. E. Blair 510 W. Washington St. will erect \$18,000 brick veneer residence, Country Club Place.

N. C., Raleigh—Godfrey Cheshire, Commercial Bank Bldg., will erect \$11,500 residence.

Okla., Knoxville—T. O. Couch will remodel residence on Kingston Pike; Barber & McMurray Archts.; Chas F. Lester, Landscape Archt., both 425 N. Clinch Ave., Knoxville.

Okla., Tulsa—J. H. Whitaker, 2604 East Fifth Place, will erect \$200,000 residence, 1249 E. 26th Place.

S. C., Columbia—Dr. A. Coke Summers will erect brick veneer aeroplane bungalow; Wilson, Berryman & Kennedy, Archts., Wilson and Gastonia, N. C., and Columbia, S. C.

Tenn., Knoxville—W. H. Sterchi will erect \$25,000 residence, Magnolia Ave.; 8 rooms, brick veneer and hollow tile, tile roof, 3 baths, vacuum vapor system of heat, hardwood floors; Barber & McMurray, Archts., 425 W. Clinch Ave., Knoxville.

Tenn., Knoxville—John Rogers Co., 713 Market St., will erect 4 dwellings, West Knoxville; brick and frame, hardwood floors, tile baths, built-in features, 6 rooms, tile and other roofs; cost \$6000 to \$9000 each.

Tenn., Memphis—H. Allen will erect English type bungalow, Hein Park; Joe T. Wallace, Archt., Memphis.

Tenn., Nashville—B. S. Corbitt will erect residence; C. A. Ferguson, Archt., Arcade Building, Nashville.

Tex., Dallas—Home Financing Co., Linz Bldg., will erect 5 six-room brick veneer dwellings, 3310-11 Overbrook St. and 4322-02-18 Cedar Creek Drive; total cost \$30,000.

Tex., Ennis—Hubert Rogers will erect English type 6-room bungalow.

Tex., Houston—G. E. Simpson, 717 W. Alabama Ave., will erect \$10,500 residence and garage, 2003 Alabama Ave., Holman 47 addition; 2 stories, frame and brick veneer.

Tex., San Antonio—L. E. Fite & Co., 201 E. Pennsylvania St., will erect 10 three-room dwellings, Goodrich St.; total cost \$11,000.

Tex., San Antonio—Judge W. W. McCrory, 610 Camden St., will erect \$14,000 residence, Huisache and McCullough Aves.; 2 stories, 8 rooms, brick veneer; J. I. White, Archt., care Couch-Ables Lumber Co., San Antonio.

Va., Norfolk—Home Builders' Finance Corp. will erect 1 two-story frame dwelling and 2 six-room bungalows at Inglewilde; total cost \$12,500.

Tex., San Antonio—H. J. Shearer, 2001 Huisache Ave., will erect \$10,000 residence, 2000 block W. Mulberry St.; 6 rooms, brick veneer; J. I. White, Archt., care Couch-Ables Lumber Co., San Antonio.

W. Va., Fairmont—R. Martin, care Elkins Building Supply Co., Elkins, W. Va., contemplates erecting \$50,000 residence, Oakwood Ave.; 2 stories and basement, 40x60 ft.

W. Va., Huntington—W. O. Dunham, 425 Sixth St., will erect \$15,000 residence, Ricketts Place; 2½ stories and basement, 42x38 ft., brick and hollow tile; R. L. & S. L. Day, Archts., 1018 First National Bank Bldg., Huntington.

Government and State

Ala., Andalusia—Post Office—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., will probably call for bids about Dec. 15 for \$45,000 postoffice Three Notch St.

Ark., Conway—Postoffice—S. G. Smith will erect 30x60-ft. building to be leased by Government for postoffice; brick, stucco and plate glass.

Hospitals, Sanitariums, Etc.

Fla., Miami Beach—Jas. A. Allison and Carl G. Fisher, 1616 Ocean Drive, will call for bids in about 2 weeks for Miami Beach Hospital to be erected on 5-acre tract on Allison Island; cost \$300,000 to \$350,000; construction on unit plan; 3-story, 50-room building to be erected first; building in rear for kitchen, dormitory and operating suites; sun and shaded gardens on roof; steam heating system; August Geiger, Archt., Calumet Bldg., Miami, Fla.*

Mo., Marshall—State, Arthur M. Hyde, Gov., will erect 2 dormitory buildings at colony; for feeble-minded and epileptic \$160,000 appropriation available.

Mo., St. Louis—City, E. R. Kinsey, Pres. Board of Public Service, plans to erect negro hospital; funds from bond issue.

N. C., Charlotte—Mecklenburg County, J. B. McLaughlin, Chmn. County Commrs., will vote Dec. 9 on \$100,000 tubercular hospital bonds.*

N. C., Halifax—Halifax County, Dr. E. W. Larkin, County Health Officer, Weldon, N. C., will let contract Nov. 3 for home for indigent tubercular patients at County Home; brick, 1 story, 100x50 ft., brick foundation, cost without furnishings and equipment, about \$16,000; heating in gen. contr.; E. Flannigan, Archt., Henderson, N. C.*

S. C., Bennettsville—City and Marlboro County will probably vote on 2-mill tax to enlarge hospital. Address City or County Commrs.

Hotels and Apartments

Ala., Mentone—Mentone Springs Hotel Co., W. R. Hilliard, Pres., will expend \$12,000 for improving property.

D. C., Washington—Moore & Hill, 730 17th St., N. W., is taking bids for erection of \$30,000, 2-story, 50x126 ft., brick apartment building, 6th St. and Virginia Ave., S. W.; Claude N. Norton, Archt., 1311 G St., N. W., Washington.

D. C., Washington—Silver & Smith, 419 Irving St., N. W., is taking bids for erection of \$90,000, 4-story, 98x60 ft., brick, semi-fireproof, stores and 23-apartment building, 14th and Webster Sts.; Geo. T. Santmyer, Archt., 1415 K St., N. W., Washington.

Fla., Bradentown—D. R. Roof, Pres. of Board of Trade, will appoint committee to proceed with plans for erecting \$500,000 hotel building.

Fla., Daytona Beach—C. E. Banks is reported to contemplate erecting apartment buildings in Daytona Beach and Seabreeze.

Fla., Fort Myers—Don L. Farmer, acting for G. L. Miller & Co. of Atlanta, Ga.,

signed contract for apartment house to cost not less than \$130,000; work to begin within 3 months after plans by W. O. Sparklin.

Fla., Miami—H. E. Rogers and Associates approved sketches by Chas. P. Neider, 304 Calumet Bldg., Miami, for erection of \$475,000, 7-story, 85x140 ft., fireproof hotel building at Edenhelm; tile roof garden, tile and cement floors, concrete foundation, hollow tile, interior tile, metal doors, mail chutes, ventilators, ornamental terra cotta, steel sash and trim, wire glass.*

Fla., Miami—Dinkler Hotel Corp., Carling L. Dinkler, 1422 Peachtree St., Vice-Pres. and Gen. Mgr., Atlanta, Ga., has made preliminary arrangements with their agent Charles E. Neville, for erection of 200-room hotel.

Fla., Miami—John W. Livingston, art director for the Shoreland Co., prepared plans for \$2,000,000, 350-room hotel to be erected by a Detroit corporation in connection with development by the Shoreland Co., of Miami Shores, the new development on Biscayne Bay near Arch Creek; Italian architecture, Mediterranean effect, 10 stories, concrete, stucco, and terra cotta; 30-car private garage in rear.

Fla., Miami—E. Weiner will erect \$18,000 8-family apartment building on S. W. Third St.

Fla., Sarasota—Traylor & Whipple announced plans for erection of 250-room hotel to cost about \$1,000,000, work to start next year.*

Fla., Tampa—W. T. Myers and J. R. Etters, 1819 Watrous Ave., have purchased property on Plant Ave. and contemplate erecting apartment building.

Fla., Tampa—Dr. B. B. Moodie, Citrus Exchange Bldg., announced plans for erection of \$250,000 hotel, 3 apartment houses and development of residential suburb with a \$150,000 pier and 2 yacht basins, on 117 acres of land on south side Gandy Bridge; property purchased by Dr. Moodie and Mrs. Willie Payne Myers to be transferred to Furman B. Moodie, who will operate and supervise development as president of Furman B. Moodie Properties, Inc., at expenditure of \$12,000,000; hotel will be erected by New York Yacht & Gun Club, New York City; on south side proposed \$150,000 pier. E. G. Rogers of Jacksonville, will erect 3 apartment houses; McElroy Engineering Co. and Florida Engineering & Landscape Co., Engrs. and Contrs.; E. H. Trebes, Contr.; all Tampa.

Fla., Tampa—Wynne-Claughton Co. of Atlanta, Ga., expects work to start within 60 or 90 days on \$750,000 apartment hotel on Davis Island; plans complete.*

Fla., Tampa—Tampa Apartment & Hotel Corp., 200 Krause Bldg., expects work to begin about Oct. 20, on 100 frame, 8-apartment buildings to cost \$9000 each; 2 stories, 30x45 ft. unit buildings, wood and linoleum floors, concrete foundation, 4-ply built-up roof, ventilators; will be built in 20 different groups of 3 to 10 buildings each; 800 baths and 800 kitchens; construction on cost plus a fixed sum basis; Robert C. Lafferty, Archt., 3135 Broadway, New York City, and 200 Krause Bldg., Tampa.*

Ga., Elberton—Elberton Community Hotel Co., Inc., opens bids this week for erection of \$100,000, reinforced concrete, 4-story hotel building; cement, terrazzo and concrete floors, concrete foundation, hollow tile, interior tile, steel sash and trim, wire glass, metal doors, tar and gravel and slate roof; Pringle & Smith, Archts., Atlanta, Ga.*

Ga., Waycross—Lions' Club adopted proposal for new \$300,000 tourist hotel.

Ky., Ashland—E. L. Helfrick, 120 W. Greenup St., is taking bids for erection of

4-story and basement, 50x80 ft., brick on hollow tile, 3-store and 8-suite apartment building, 15th and Center Sts.; Albert F. Klein, Archt., Ashland Nat'l. Bank Bldg.*

Ky., Catlettsburg—D. Beros, care Archt., has plans in progress by Thos. F. Walston, 917 Ashland Nat'l. Bank Bldg., Ashland, Ky., for erection of \$20,000, 2-story, 60x50 ft., brick and stucco hotel building, Panola and Division Sts.

Ky., Louisville—John White, Jr., 213 W. Main St., announced plans for erecting \$500,000 apartment building, N. E. cor. Ormsby Ave. and Garvin Place; 8 stories, brick and terra cotta, fireproof, 106 apartments of from 2 to 5 rooms; E. T. Hutchins, Archt., 416 Fifth St., Louisville.

Mo., Independence—Roy Johnson has broken ground for erection of 3-story apartment building on Slack Place near Delaware St., fronting on Van Horn; basement to contain automobile space and heating plant.

Mo., Kansas City—J. Hempfling & Son, 819 Smith Ave., will erect \$20,000 duplex apartment building at 405-07 Ward Parkway.

Mo., Kansas City—King Building Co. will erect 2-story frame apartments at 3500-02, 3504-06 and 3508-10 E. 25th St., to cost \$25,000.

Mo., Springfield—James C. Joslin, 474 Cherry St., will erect brick, 4-apartment building at 474 Cherry St.

Mo., St. Louis—J. C. Peters, 8504 Clifton St., has purchased plot of ground fronting 684 ft. on south side Theodosia Ave., beginning at S. W. cor. Euclid Ave., and is reported to contemplate erecting 20 apartment buildings to cost \$400,000.

N. C., Weaverville—S. Sternberg, Victoria St., Asheville, contemplates erection of \$75,000, 50-room hotel on Main St.; construction in early spring.

S. C., Greenville—J. L. Lock will erect \$18,000, 2-story, brick veneer, 45x60 ft. apartment house on Atwood St.

N. C., Greensboro—Mrs. E. C. Watlington, 201 Edgeworth St., will erect \$20,000, 3-story, store and apartment building, Greene and Depot Sts.

Tenn., Nashville—C. K. Colley & Co., Archts., Fourth & First Bank Bldg., opened bids for erection of 3-story, brick and stucco apartment building on Belmont Blvd.

Tex., Dallas—H. H. Daniels, 2219 Oregon St., will erect \$30,000, 48-room, brick veneer, 12-apartment building at 508 N. Winnetka St.

Tex., Dallas—Lois M. Hentz, 832 Blaylock Drive, will erect \$12,500, 24-room, 8-efficiency type, brick veneer apartments, 836 Blaylock Drive.

Tex., Dallas—W. S. Willis has plans in progress by C. H. Leinbach, Dallas, for two 2-story, brick veneer apartment buildings at Allen and San Jacinto Sts.

Tex., Galveston—G. K. Jorgensen, 2303 Q St., has plans in progress by W. S. Murdoch, 6005 Avenue M., Houston, for erection of \$800,000, Spanish design, 11-story, 500-room hotel, on the Boulevard at Crystal Palace property; ball room and cabaret on roof; R. H. Allison of Birmingham, Ala., is stock promoter.

Tex., San Antonio—Mrs. Lucy Wooters, 1417 Main Ave., will convert 2-story, 9-room frame house into apartment building, corner Evergreen and Main Ave.

Tex., Vernon—Mr. and Mrs. S. W. Bailey opened bids for erection of third story addition and remodeling present 2 stories of Bailey Hotel; \$25,000.

W. Va., Bluefield—Henry Rodgin, one of owners of property at Lake and Bland Sts., contemplates erection of 16-apartment

building; 3, 4 and 5 room apartments with sun parlor, garage and laundry for each apartment.

Miscellaneous

Fla., Daytona Beach—Casino and Bath House—McMillan and Wright will erect casino building and bath houses, to cost \$26,000, Main St. and Ocean Ave.; third unit of building program, which consists of hotel, fishing pier, dance pavilion, etc.

Fla., Lakeland—H. A. Stahl Florida Properties Co., with capital stock of \$500,000, has been formed with J. J. Haldeman, temporary president, and contemplates erection of \$75,000 clubhouse, 18-hole golf course and probably a \$500,000 hotel.

Fla., Miami—Cafe—C. E. Byrne will erect cafe with Spanish garden in rear at 143 N. E. First St.; \$45,000; J. C. Gault, Archt., Real Estate Bldg., Miami.

Fla., Sarasota—Fair Committee of Chamber of Commerce, Hugh F. McWilliams, Chmn., has secured option on 40-acre tract on west Fourth St., and contemplates constructing auditorium, display buildings, race track, etc.

Ga., Atlanta—Clubhouse—Jewish Progressive Club will expend \$15,000 for additions to building at 272 S. Pryor St.

Md., Baltimore—Myer Rosenbush will erect 1-story, \$15,000, brick, 125x81x13 ft. addition to property on north side Preston St. east of Guilford Ave.

Mo., Kansas City—Jay Tschudy, 1024 W. 54th St. will erect \$10,000, 2-story addition to building.

Mo., Springfield—Rainbow Fish and Hunting Club, M. P. Nibler, Pres., Springfield, will erect clubhouse 4 miles north of Springfield. (See Buildings Proposed-Dwellings.)

N. C., Asheville—Clubhouse—Asheville Federation of Women's Clubs, Mrs. Chas. A. Webb, Pres., has plans in progress by Ronald Greene, Oates Bldg., Asheville, for erection of Clubhouse on Charlotte St.

N. C., Wilmington—Clubhouse—Frying Pan Power Boat Club, Commodore T. A. Whitehead, contemplates erection of clubhouse.

Tenn., Chattanooga—Market House—Commissioner Emil Wassman contemplates erection of market house; will probably issue \$75,000 in bonds.

Tenn., Memphis—Convent—Sacred Heart Catholic Church, Very Rev. P. L. Mahoney, pastor, expects work to start in about 5 months on remodeling Sisters' Convent on Cleveland St., to cost \$15,000.

Tex., O'Donnell—O'Donnell Stock Co. will erect 2-story, 50x25 ft., stucco building, upper story to be used as Masonic lodge room.

Tex., San Antonio—Smith Bros. of Crockett, Tex., has plans in progress by Atlee B. & Robt. M. Ayres, Bedell Bldg., San Antonio, and will soon take bids for \$15,000, 1-story, brick and concrete, 50x150 ft. building on Bowens Island.

Virginia—Grand Lodge Knights of Pythias contemplates erection of orphanage for dependent children of Pythians; address retired Grand Chancellor Sibert, Norfolk.

W. Va., Welch—Alec Babalis has purchased property adjoining Welch Theatre building and will erect building to contain pool room and soft drink stand.

W. Va., Wheeling—Peter G. Caravassios, 419 S. Penn St., purchased 3-story brick building at 1133 Main St., and will make extensive improvements.

Railway Stations, Sheds, Etc.

Fla., Groveland—Atlantic Coast Line Rwy. Co., B. C. Hartley, local agent, expects to

start work in 30 days on new station; \$10,000, tile and brick warehouse.*

Schools

Fla., Canal Point—School District No. 1 will vote Oct. 21, on \$50,000 bonds for additions and equipment for school buildings and grounds; address Board of Trustees.

Fla., Orlando—School Board contemplates expending \$300,000 for school improvements; plans include enlarging high school, erecting junior high, adding 4 rooms to West Central school, addition to Delaney school.

Fla., Ocala—Marion County Board of Public Instruction, H. G. Shealy, Supt., opened bids for erection of 2-story and basement high school building; Ray & Thomson, Ocala, low bidders at \$80,843.17; George MacKay, Archt., Ocala.*

Ga., Colbert—Trustees, Colbert School District, W. S. Lowe, Sec.-Treas., contemplates erection of \$20,000, brick veneer, 10 to 12-room and auditorium, 1-story school building.*

Fla., St. Augustine—St. Johns County Board of Public Instruction will readvertise for bids for erection of senior high school building; F. A. Hollingsworth, Archt., City Bldg., St. Augustine.*

Ky., Central City—Board of Education, L. L. Stewart, Chmn., contemplates erecting \$50,000 high school building.

Ky., Madisonville—Board of Education, Belmont Otley, Chmn., contemplates erecting \$25,000, 2-story and basement, brick, ward school building, Hall and Harrig Sts.; Archt. not selected; probably mature in early spring.

Ky., Murray—Board of Regents Murray State Normal School will open new bids Oct. 21 for erection of 4-story, fireproof, 100x223 ft. girls' dormitory; Tandy Smith, Jr., Archt., Paducah.*

Ky., Scottsville—Board of Trustees, Scottsville Graded School District, I. D. Turner, has plans in progress by John Waller, 9th and Main Sts., Hopkinsville, Ky., for erecting \$20,000, 2-story and basement, 60x86 ft. brick school and gymnasium building.

La., Ajax—Parish School Board of Ajax District will call election Nov. 3 to vote tax for erecting school building.

Md., Baltimore—Public Improvement Commission, Hearst Tower Bldg., will revise plans and call for new bids for erecting addition to Pimlico School.*

Md., Cumberland—Allegany County Board of Education, Ferman J. Pugh, Pres., 105 S. Center St., is taking new bids for erection of 16-room, brick and stone, Pennsylvania Ave. school; Wright Butler, Archt., Cumberland; bids recently rejected.*

Md., Essex—Baltimore County Board of Education, Sam M. Shoemaker, Pres., Towson, contemplates erection of \$120,000 school building.

Miss., Goodwater—Board of Trustees, Goodwater School District opened bids for erecting school building.

Miss., Jackson—School Board has preliminary sketches by J. M. Spain, Jackson, for \$100,000, 1-story, 235x200 ft., semi-fireproof negro high school building; wood floors, concrete foundation, copper shingle roof.*

Miss., Natchez—Board of Education selected William Steienroth, Natchez, to prepare plans for erection of \$75,000 school building; bonds recently voted.*

Mo., Carathage—Ozark Wesleyan College, Dr. William Wirt King, Pres., has plans for erection of \$250,000 administration building.

Mo., Independence—Board of Education, John W. Davis, Clerk, contemplates erection of \$200,000, 2 and 3-story and basement,

60x102 ft. and 84x120 ft., brick and stone, grade and high school additions; Owen & Payson, Archts., 505 Interstate Bldg., Kansas City, will take bids about Oct. 15.*

Mo., Jefferson City—Board of Education, Mrs. Ernest Simonson, Pres., contemplates erection of \$300,000, 3-story and basement, 190x115 ft., brick with stone trim, Senior High School building; Owen, Payson & Carswell, Archts., 505 Interstate Bldg., Kansas City, will be ready for bids about Nov. 15.*

Mo., St. Louis—St. Mary of Magdalene Parish, care Rev. J. J. Thompson, will soon let contract for erection of \$150,000, 2-story and basement, 130x180 ft., brick and reinforced concrete, fireproof, parochial school, Kingshighway and Sutherland; Henry P. Hess, Archt., 1237 Taylor Ave.; Wm. P. McMahon, Asso. Archt., Title Guaranty Bldg.; both St. Louis.

N. C., Asheville—School Board will call election Dec. 6, to vote \$525,000 bonds; plans call for new High School building in West Asheville to cost about \$225,000, and 40-room additions to grammar schools; address F. L. Condor, City Commr., Chmn. of School Committee.*

N. C., Charlotte—Mecklenburg County Board of Education, Plummer Stewart, Chmn., Law Bldg., will open new bids Oct. 20, for erection of Dixie-Big Springs School.

N. C., Rutherfordton—Board of Education will soon let contract for erection of \$200,000 high school building.

Okla., Tulsa—Board of Education, Frank E. Duncan, Pres., opens bids this week for erecting Manual Arts Building; Leland I. Shumway, Archt., 725 Wright Bldg., Tulsa.

S. C., Columbia—Benedict College, Rev. Clarence B. Antisdel, Pres., will take bids Oct. 9, for erection of Science Building; Hentz, Reed & Adler, Archts., Atlanta, Ga.; J. B. Urquhart, Asso. Archt., Columbia; plans on file at Columbia Builders' Exchange.*

S. C., Greenwood—Board of Trustees will select architect on Oct. 21, for \$225,000 high school building; bonds recently voted; site not selected.*

S. C., Rock Hill—Dr. D. B. Johnson, president of Winthrop College, outlined plans for expending \$1,566,000, for additional buildings and improvements, to be provided through passage of \$10,000,000 bond issue to be voted by State on Nov. 4.

S. C., Union—City voted \$150,000 bonds for erecting addition to High School, extra rooms at grammar school, overhauling at Central School; address School Board.

Tenn., Erwin—Unicoi County Court will call election Nov. 15, to vote \$35,000 school bonds.

Tenn., Jacksboro—Campbell County Court voted \$50,000 school bonds; \$25,000 will be used for erection of school building; address Board of Education.

Tenn., Johnson City—Board of Commissioners opens bids Oct. 16, for erection of additions to North Side and Keystone School buildings, and Oct. 22 for addition to Junior High school building; plans and specifications may be obtained from T. H. McNeil, City Recorder.*

Tex., Harrisburg—City voted \$350,000 bonds for erection of high school buildings in Harrisburg and Magnolia Park; L. A. Glover, Binz Bldg.; John McLelland, Park Place; both Houston, are the Archts.; address J. S. Deady, Pres., School Board.*

Tex., Plainview—Board of Education, John F. Sanders, Sec., has plans in progress by Kerr & Walsh, Amarillo, for erection of \$100,000 brick and reinforced concrete 2-story high school building; bonds to be voted soon.*

Tex., Sinton—Trustees of Adams Independent School District, Albert Kastner, Pres., rejected all bids for erection of brick and tile school building; taking new bids to close soon; E. E. Hamon, Archt., McDonald Bldg., Corpus Christi.*

Tex., Taft—Charles P. Taft, Cincinnati, Ohio, has donated 200-acre ranch for purpose of a Texas State Industrial Farm; citizens have donated \$10,000 for erection of girls' college buildings.

Tex., Trinity—Trinity Independent School District defeated \$50,000 bond issue; address Board of Trustees.*

Va., Hopewell—School Board, Geo. C. Rulfus, Clerk, will open bids Oct. 28, for erection of \$125,000, 3-story 65x243 ft., reinforced concrete, brick walls, high school building; Barrett roof, composition and concrete floors, concrete foundation, hollow tile, interior tile, plaster board, ventilators, steel sash and trim; Fred A. Bishop, Archt., 904 Virginia Rwy. & Power Bldg., Richmond, Va.*

Va., Portsmouth—City Council authorized erection of Prentis Park School, on property bounded by Duke and Peachtree Sts. and Race and Atlanta Aves.

W. Va., Cabin Creek—Cabin Creek District will vote Nov. 4 on \$55,500 school bonds; address Board of Education, Edward Smith, Sec.

Va., Hopewell—School Board will open bids Oct. 28, for erection of high school building; 3 stories, 20 classrooms, auditorium and gymnasium 60 ft. long; Fred A. Bishop, Archt., Melvain Bldg., Petersburg.*

W. Va., Hurricane—Board of Education of Curry District, W. T. Stuckey, Sec., opens bids this week for erection of \$40,000, 2-story and basement, 27x44 ft., brick on hollow tile, high school addition; Meanor & Handloser, Archts., Professional Bldg., Huntington, W. Va.

Stores

Fla., Jacksonville—Fifty Associates Co., Courtland Buckman, Pres., 1143 Riverside Ave., has purchased property at 37 W. Monroe St., and is reported to contemplate erecting store building.

Fla., St. Petersburg—G. W. McCray, 439 Eleventh St., S., has purchased building, Ninth St. and Second Ave., and will replace with business block, to contain 9 stores.

Fla., West Palm Beach—Crane Co., 836 S. Michigan Ave., Chicago, Ill., has purchased Lakeside Casino, on Third Ave., and contemplates erecting building on site.

Ga., Atlanta—F. W. Woolworth Co., Woolworth Bldg., New York City, leased property on Alabama St., and also has lease on 75-ft. frontage on Whitehall St.; contemplates erecting store building.

Ky., Louisville—Kaufman-Straus Co., 427 Fourth St., selected Nevin, Wischmeyer & Morgan, Starks Bldg., to prepare plans for alterations to store building to cost \$300,000; work includes new front, redecorated interior, new fixtures, etc.; Abell Elevator Co., 114 N. Eighth St., Louisville, has contract for 4 elevators at south wall, from basement to fifth floor.

Md., Baltimore—Diamond Brothers, Inc., 115 W. 30th St., New York City, care B. Howard Richards, local repr., 1109 Lexington Bldg., Baltimore, will select architect and take bids about Jan. 15, for \$60,000, 4-story, brick and steel store building at 15 W. Lexington St.

Md., Baltimore—Max Dann of the Great Eastern Millinery Co., 1127 Chestnut St., Philadelphia, Pa., has leased Wizard Theatre, 30-32-34 West Lexington St., and will expend about \$30,000, for converting into

branch store; work to start about Dec. 1. Mo., Kansas City—McGee Street Investment Co. will remodel store building at 304-8 E. 17th St., to cost \$15,000.

Mo., Springfield—W. E. Burgin, 504 W. Olive St., will expend \$10,000 for improvements to business building at Market and Olive Sts.

Mo., Springfield—W. P. Holland, 718 W. Mt. Vernon St., will erect \$14,000 business building at Olive and Robberson Sts.

Mo., Springfield—F. R. Schaffer, 402 Hovey St.; will erect \$18,000, brick business building at 412-14 S. Campbell St.

S. C., Spartanburg—Dr. N. T. Clarke, Palmetto St., will erect store building on East Main St. on site of First Presbyterian Church.

Tenn., Chattanooga—James Kalanzis, 1709 Dean St., will erect \$10,000, 70x70-ft. store building on McCallie Ave.

Tenn., Memphis—Mrs. Alice B. Byrd, 119 Madison St., and Mrs. Harry M. McLean have plans by Joe T. Wallace, Memphis, for improvements to 3 tenement houses on Monroe Ave., to cost \$25,000; grade floors will be lowered, front will be treated with single story stores and bottom floors will be converted into business houses; second floor will be used as apartments.

Tex., Abilene—J. M. Radford Grocery Co. has plans in progress by David S. Castle, Abilene, for erection of \$150,000, 3-story, brick and reinforced concrete building.

Tex., San Antonio—Beverly W. Spillman, Archt., Alamo Nat'l Bank Bldg., is taking bids for erection of \$12,000, 1-story, tile and concrete, 63x80 ft. building on S. Flores St. for C. C. Villemain.

Theatres

Fla., Sarasota—Associated Enterprises will erect theater to seat 1500 people; \$150,000; address William Mahoney, local Mgr.

Ky., Central City—Rodney C. Davis and Leo F. Keller of Paducah, Ky., have purchased corner of Second and Broad Sts., and will erect theater building to seat 1500.

N. C., Durham—Southern Amusement Co., T. G. Leitch, Mgr., will have plans for contractors about Nov. 1, by Milburn, Heister & Co., First National Bank Bldg., Durham, and Union Savings Bank Bldg., Washington, D. C., for \$350,000, steel and concrete, 8-story theatre and office building.*

Tex., New Braunfels—A. J. Loehmann, San Antonio, and John Stahl, New Braunfels, have acquired 40 ft. of property from R. G. Gode tract on Castell St., and contemplate erecting theatre building to be known as the Palace.

Warehouses

Fla., St. Petersburg—Citizens' Ice Co., 100 First Ave. S., will erect \$15,000, 2-story, brick wareroom on Tenth St. south.

W. Va., Williamson—Home Lumber Co. will soon start work on warehouse.

laus Russell, Archt., 11 E Lexington St., both Baltimore.*

Tenn., Jackson—Mississippi Fire Insurance Co., C. W. Mounser, Sec., let general contract at \$63,988 to E. G. Parrish, Jackson, Tenn., for office building, Congress and Washington Sts.; Italian renaissance type, gray brick marble trim, 2 stories and mezzanine; plumbing and heating to Waburton Plumbing Co. at \$4996; electric work, Woeneman Electric Co., \$980; N. W. Overstreet, Archt., Overstreet Bldg., all Jackson, Miss.; contract for concrete piling lately noted let.*

Tex., Dallas—Tibbs-Dorsey Manufacturing Co., 911 S. Walker St., Oklahoma, Okla., has contract at about \$70,000 for finishing work on \$1,500,000 office building under construction for Republic Building Co. by Inge Construction Co., 504 Swiss St.; C. D. Hill & Co., Archts., Central Bank Bldg.; Wirt Davis, Chmn. Bldg. Comm., P. O. Box 28, all Dallas.*

W. Va., Huntington—First Huntington National Bank, B. B. Hagen, Pres., let contract to E. G. Holladay Co., 151 Fourth Ave., N., Nashville, Tenn., for \$500,000 structural steel, concrete and brick annex, 4th Ave. and 10th St.; 12 stories, 70x60 ft., tile and concrete floors, concrete foundation, built-up roof, vault lights, hollow and interior tile, ornamental terra cotta, 4 elevators; about 130 additional offices; Meador & Handloser, Archts., Robson-Prichard Bldg., Huntington; contracts for excavation and foundation and structural steel lately noted let. (See Mch. Wanted—Building Material).*

BUILDING CONTRACTS AWARDED

Association and Fraternal

Ga., Sandersville—Ancient Free and Accepted Masons will erect brick and wood temple to replace burned structure; 2 stories, 50x70 ft., pine floors, concrete foundation, tin roof, ornamental terra cotta; Frank R. Hoff, Archt., Macon, Ga.; Holley Construction Co., Lamar Bldg., Augusta, Ga., contract at \$17,500; electric work, Hafers Electric Co., Aiken, S. C.; plumbing, J. B. Camp & Son, Sandersville.*

La., Shreveport—Young Men's Christian Assn., C. R. Minor, Chmn. Bldg. Comm., let contract for fireproof building to Glassell-Wilson Co., Inc.; cost without furnishings and equipment, about \$320,000; reinforced concrete, brick and stone, 4 stories and basement, hollow and interior tile, hardwood and concrete floors, metal doors, vaults, mail chutes, vault lights, ventilators, ornamental terra cotta, rolling partitions, steel sash and trim, wire glass; Clarence W. King, Archt., Giddens-Lane Bldg., both Shreveport; other contracts lately noted.*

W. Va., Huntington—Fidelity Lodge No. 123, I. O. O. F., J. P. Wilkinson, member, Bldg. Comm., let contract for building, 6th Ave. and 8th St., to John Woodrum, 1743 Fifth Ave., at \$34,934; 3 stories, 60x75 ft., rough face brick and hollow tile; 4 stores on first floor, lodge rooms above; Frampton & Bates, Archts., Watts Bldg.; plumbing, W. M. Johnson, all Huntington; contract for steel lately noted let; will use incinerator with two receiving doors, nine cast iron vent grilles, 8x12 in., for exterior walls, two 18x24 in. and one 16x20 in. for interior.*

Bank and Office

Fla., Daytona—American Bank & Trust Co., H. G. Skiles, Pres., Magnolia Ave., let contract to Fuquay & Gheen, Daytona, to remodel and erect addition to building on Volusia Ave. for banking quarters; cost about \$30,000; vaults, stone front, 2 stories; offices on second floor; work started.*

Fla., Miami—Dr. Edwin Smith Vail, 2040 N. Bay Shore Drive, and Dr. Thornton Edwin Vail let contract for \$125,000 arcade and office building, N. E. 1st St. near 2nd Ave., to Fred T. Ley & Co., Inc., 19 W. 44th St., New York City, and Springfield, Mass.; 4 stories, fireproof, reinforced concrete frame, floor and roof slabs of clay tile rib construction, hollow tile and stucco, tile cornice, Caen stone barrel vault ceiling in arcade; 12 shops, etc., on first floor, 25 offices on second, 2 upper floors to be occupied by Hirsch-Fauth-Harrison Furniture Co.; Robt. L. Weed, Archt., Metropolitan Bldg., Miami.*

Fla., Tampa—Florida Mortgage, Title & Bonding Co., 715 Florida Ave., Chas. H. Brown, Pres., let contract at \$430,000 to McGucken-McGucken & Edwards, 204 Nebraska Ave., Tampa, for 12-story office building, Franklin and Lafayette Sts.; brick, marble, stone, hollow tile, reinforced concrete and steel, 57x105 ft., marble terrazzo and concrete floors, concrete foundation, Johns-Manville roof, gypsum interior tile, metal doors, vaults, mail chutes, vault lights, ventilators, ornamental terra cotta, steel sash and trim, wire glass; steam heating and plumbing not let; 3 electric elevators to Otis Elevator Co., 11th and 26th Sts., New York City; cost without furnishings, equipment, etc., \$550,000; B. C. Bonfoey, Archt., Petteway Bldg., Tampa.*

La., New Orleans—Canal-Commercial Trust & Savings Bank let contract to J. A. Petty, Godchaux Bldg., for brick and frame broad bank building N. Claiborne Ave. near Orleans St.; cost \$32,000, 1 story, 64x64 ft., concrete tile and hardwood floors, concrete spread foundation, tile roof, interior tile, vaults, steel sash and trim; furnishings, equipment, etc., \$24,000; Jones, Roessle & Oschner, Archts., Maison Blanche Bldg., all New Orleans.*

Md., Baltimore—Atlantic Trust Co., 17 South St., Eugene L. Norton, Pres., let contract J. F. Hardy, 4200 Groveland St., for alterations to 3-story brick building; Stanis-

Churches

Ark., Wabbaseka—G. A. Shelby Memorial Baptist Church, J. L. Lee, Deacon, will erect \$14,000 building; C. U. Drake and H. E. O'Neal, Contrs., Pine Bluff, Ark.

Ky., Williamsburg—First Baptist Church, J. B. Gatloff, Chmn., Bldg. Comm., let contract at about \$162,000 to Grisholm Construction Co., Knoxville, Tenn., for brick building; pine and concrete floors, concrete foundation, hollow and interior tile, metal ceilings, ventilators, ornamental terra cotta, rolling partitions; Dougherty & Gardner, Archts., Stahlman Bldg., Nashville, Tenn.*

La., New Orleans—Baptist Church is erecting building, Olive and Gen. Odgen Sts.; J. J. Bosey, Gen. Contr.; 275 concrete blocks to Longo Concrete Products Co., both New Orleans.

Mo., Houston—Methodist Episcopal Church, South, Rev. Dawson C. Bryan, Pastor, let contract to Van Ness Construction Co., Salem Mo., for stone building; cost without furnishings and equipment, \$12,000; 2 stories, 45x67 ft., wood and concrete floors, metal ceilings, concrete foundation, asphalt slate roof, steam heat; items to be purchased include pews; plans by Board of Architecture of M. E. Church, South, Louisville, Ky. Address Mr. Bryan.*

Mo., St. Louis—United Hebrew Congregation, Enright and Kingshighway, will erect concrete foundation of brick synagogue, 205-15-25 S. Skinner Rd.; 175x140 ft.; Moritz & Young, Archts., 1123 Chemical Bldg., St. Louis; owner builds.

Okla., Oklahoma City—Linwood Methodist Church, Rev. C. Merritt LaGrone, Pastor, has started work on \$30,000 building, 17th St. and Drexel Ave.

Tex., Dallas—First M. E. Church South, E. Gordon Perry, member Bldg., Comm., let contract for \$650,000 fireproof building to Bel-lows MacLay Construction Co., 305 N. Market St.; dark gray face brick, steel and reinforced terra cotta trim, green tile roof, 2 stories and basement, 232x160 ft., Caen stone interior walls and ceilings, cork carpet, mastic or

linoleum floors, walnut finish, open air auditorium, chimes, steam heat, pipe organ; main-auditorium to seat 2635, 2 balconies; 4-story Sunday-school section with assembly hall to seat 3500; gymnasium, 40x64 ft., with balconies to seat 450; locker and shower rooms; 60x102 ft., roof garden with tile floor and stage; R. H. Hunt Co., Archt., 1301 S. W. Life Bldg., all Dallas.*

Tex., Mission — First Methodist Church, Rev. Chas. Nixon, Pastor, let contract at \$26,000 to Chalk & Robinson, Mission, (late-ly noted Chalk & Robson), for brick and concrete building; 1 story and basement, 45x72 ft., edge grain pine and concrete floors, steel and concrete foundation, plumbing and sheet metal roofing to Potter Plumbing Co., Mission; heating and electric work not let; R. L. Pierce, Archt., Travis Bldg., San Antonio; address proposals on equipment, furnishings, etc., to owner.*

W. Va., Point Pleasant — Presbyterian Church, Rev. Peter H. Steenberber, Chmn. Bldg. Comm., will erect \$30,000 building, Main St.; 2 stories and basement, 70x125 ft., brick; F. Crother, Archt., Citizens National Bank Bldg.; J. H. Love, Contr., Capitol City Bank Bldg., both Charleston, W. Va.

City and County

Fla., Tampa—Fire Station—City, W. Lesley Brown, City Mgr., let contract for \$13,400 fire station in Hyde Park to Logan Bros., 918 Citizens Bank Bldg., Tampa.*

Md., Baltimore—Police Sub-Station—Board of Awards, Mayor Howard W. Jackson, Mayor, let contract at \$14,500 to Henry L. Maas, Munsey Bldg., Baltimore, for police sub-station, N. W. cor. Reisterstown Rd. and Rogers Ave.*

Mo., Kansas City—Fire Station—City let contract at \$19,581 to E. L. Winn Construction Co., 105 Railway Exchange Bldg., for brick fire station, Liberty and Joy Sts.; cut stone trim, 2 stories, 29x88 ft., concrete and maple floors, concrete foundation, tar and gravel roof; M. J. O'Connor, Archt., 1020 Central St., both Kansas City. All materials purchased and sub-contracts let.*

Dwellings

Ark., Conway—Lodlie V. Riggs will erect residence on College Ave.; Wm. Van Valkenburgh, Archt.; Harton & Stewart, Contrs., both Conway.

Ark., Conway—John Kelton has started work on 6-room bungalow, Mitchell St.; Homer L. Tyler, Contr., Conway.

D. C., Washington—Hon. Jas. W. Wadsworth, Jr., will erect garage and servants' house, 2800 Woodland Drive, N. W.; 2 stories and basement, 29x50 ft., hollow tile stucco and limestone; Geo. N. Ray, Archt., 1219 Connecticut Ave., N. W.; Davis Wick Rosengarten Co., Contr., 1406 G St., N. W., both Washington.

D. C., Washington—Wardman Construction Co., 1430 K St., N. W., will erect 22 dwellings, 510-32 and 600-18 Sheridan St., N. W., 2 stories, 16x30 ft., brick; total cost \$137,500; Wardman & Waganan, Archts., 1430 K St., N. W.; owner builds.

D. C., Washington—Dr. Carl Voegtlin, 4418 Thirty-Seventh St., N. W., let contract to C. W. Markham, Bond Bldg., 14th St. and New York Ave., N. W., for \$20,000 residence, Tracey Place and Belmont Rd.; 2 stories, concrete, block and stucco; Rodier & Kundzin, Archts., 1707 I St., N. W., all Washington.*

Fla., Bradentown—John M. Reynolds, Manatee Ave. over United Markets, will erect dwelling, Stockbridge Ave. near Orange St.; will erect additional dwellings as demand warrants; owner builds.

Fla., Lake Wales—Mr. Harrison, Havana, Cuba, let contract to L. S. Acuff, Lake Wales, for 2-story building, Central Ave.

Fla., Miami Beach—Oscar Daniels will erect addition to residence, Collins Ave.; cost \$10,000; Kiehnel & Elliott, Archts.; Masonic Bldg., Beach Construction Co., Contr. (late-ly noted Archt.-Contr.), 1730 Purdy Ave., both Miami Beach.*

Fla., Ormond—Seaboard Realty Corp., 139 Live Oak St., Daytona Beach, Fla., C. B. Gallaher, Pres., 641 S. Ridgewood Ave., Daytona, Fla., will erect 3 dwellings before Nov. 15 in connection with development of 39-acre tract, Soudan Ormond; Geo. Graham, Archt.-Contr. Engr., Orange Ave., Daytona; Walter Romeo, Contr., Ormond.

Fla., Sarasota—Leabay Odgen, West Bldg., Jacksonville, Fla., organized Sarasota Home Building Co. with \$100,000 capital and will erect Spanish type dwellings; cost \$6000 to \$30,000 each, masonry construction, electric cooking stoves and water heaters, window shades and awnings, etc.; 150 dwellings to be erected first year, 20 to be started within 30 days; owner builds.

Fla., Sarasota—Elka Investment Co., care Morris Kaye and J. W. Levy, both Mira Mar Apts., organized and have started erection of 2 dwellings, 9th St. near Pineapple Ave.; will erect additional dwellings on Orange Ave.

Fla., Sarasota—Bacheller-Brewer Corp., Edw. H. Brewer, Pres., will erect number of dwellings in Sarasota Heights in connection with development; W. V. V. Stephens, Archt.-Contr. Engr., Sarasota; owner builds.

Fla., Sarasota—Deleplane-Price Development Co. will erect 40 residences to cost from \$10,000 to \$25,000; T. A. Monk, Contr., Sarasota. (See Contracts Awarded—Hotels and Apartments).

Fla., Seabreeze—R. G. Meredith will erect 8 bungalows and garages, N. Palmetto Ave. near Jessamine St.; Spanish type; total cost \$68,000; owner builds.

Ga., Macon—Frederick Williams let contract to W. D. Griffin, Macon, for \$10,000 residence, North Highlands; 2 stories, brick veneer, hardwood floors, probably warm air heat, composition roof, tile baths; Chas. W. Shelberton, Archt., Grand Bldg.; O'Pry Heating & Plumbing Co., plumbing, both Macon.

La., New Orleans—Miss L. Brogan will erect 10 double cottages, Hickory and Monroe Sts.; total cost \$26,000; J. E. Hagin, Contr., 1739 Gen. Taylor St., New Orleans.

La., New Orleans—Mrs. Dominick Sanza will erect \$11,600 single 2-story residence, Magnolia and Clara Sts.; Ruffin J. Walker, Contr., 4534 S. Liberty St., New Orleans.

La., New Orleans—L. J. Faulkner let contract to A. L. Smith, New Orleans, for Flag type residence, Metairie County Gardens tract.*

Md., Baltimore—Ella W. Brown, 2743 N. Calvert St., let contract to Louis H. Will for \$15,000 residence, S. side Greenway W. of Millbrook Rd.; 2½ stories, 39x29x33 ft. brick, slate roof, hot water heat; plans by Contr.*

Md., Baltimore—Benj. R. Sale will erect 3 two-story brick dwellings, S. side Overland Ave. W. of Arabia Ave.; 24x28 ft., steam heat; plans and construction by owner.

Md., Baltimore—Wm. G. Crowther, 325 Forest Rd., let contract to Wm. H. Sands, 6236 Bellona Ave., for \$30,000 frame residence and garage, S. side Chancery St. W. of Britton Place; 3 stories, 43x31 ft. and 18x14 ft., slate roofs, steam or hot water heat; Geo. N. Mackenzie, Archt., 712 Evesham Ave., all Baltimore.*

Md., Baltimore—Better Homes, Inc., will erect 7 brick dwellings, 2800-12 Presbury St.; 16x28 ft., Carey roofs, steam heat; total cost

\$20,000; H. E. Rogers, Archt.; owner builds. will erect frame residence, Liberty St.; M. L.

Md., Baltimore — Manhattan Realty Co. will erect four frame dwellings, W. side Bellwood St. N. of Harford Rd.; 1½ stories, 20x26 ft., asbestos roof, furnace heat, cost about \$10,000; F. E. Beall, Archt., 306 St. Paul St., Baltimore; owner builds.

Md., Baltimore—Geo. R. Morris Organization, Morris Bldg., will erect \$10,000 frame residence and garage, 10 Hadley Square, North; 30x25x26 ft., 2 stories; plans and construction by owner.

Md., Baltimore—John L. Tregellas, 10 E. Fayette St., will erect \$12,000 frame residence and garage, S. side Northway W. of Wendover Rd.; 2½ stories, 26x32 ft. and 12x18 ft., slate roofs, hot water heat; E. A. Wolf, Archt., 1712 Friendsbury St., Baltimore; owner builds.*

Mo., Cape Girardeau—M. E. Lessem has started work on 2 bungalows; total cost \$10,000.

Mo., Cape Girardeau — Popp & Springer Realty Co. will erect 3 dwellings, Sprigg St. near College St.; 5 rooms and bath, full basement, cost \$4250 each; work started.

Mo., St. Louis—Mr. Tibbles, care H. W. Guth, Archt., 813-A Chestnut St., let contract for \$10,000 residence, Delor St. near Kingshighway, to Barth Building & Realty Co., 4222 Graboils Ave.; 1½ stories and basement, 25x42 ft., brick.*

Mo., St. Louis—H. C. Vollmar, 6105 Cimpson St., will erect 3 brick dwellings, 6406-10-12 Columbia St.; 2 stories, 24x26 ft., concrete tile roofs, furnace heat; total cost \$12,000; owner builds.

Tenn., Clinton—Chas. Moore is laying foundation of \$10,000 residence; frame, 10 rooms and bath; McPherson & McPherson, Contrs., National Bldg., Knoxville.

Tenn., Memphis—Mrs. J. B. Masino will erect California Spanish type residence, Center Drive, Helm Park; mission shale tile roof; Regan & Weller, Archts., Bank Commercial Bldg.; D. W. Kuhlmann, Contr., 2005 Courtland St., both Memphis.

Tex., Dallas—F. K. Williford, 3510 Swiss St., is erecting two six-room brick veneer dwellings, 4428-38 Vandalla St.; cost \$6000 each.

Tex., Orange—Mrs. Sam C. Trimble will erect \$20,000 Colonial residence, 7th and Pine Sts., 2 stories, 10 rooms; John C. Markwith, Contr., Orange.

Tex., Houston—L. W. Babbitt & Co., Chronicle Bldg., will erect 2 Spanish type dwellings in Richmond Place; cost \$30,000; owners build.

Tex., San Antonio—J. A. Black, 521 W. Craig St., let contract to Chas. Brient for \$15,000 residence, 1500 block W. Woodlawn St.; Beverly W. Spillman, Archt., both San Antonio.

Tex., San Antonio—Kelwood Co., Travis Bldg., will erect 3 frame and stucco dwellings, Elsmere Place near Belknap St.; total cost \$44,000; plans and construction by owner.

W. Va., Martinsburg—Mrs. Fannie Dawson will erect frame residence, Liberty St.; M. L. Compton, Contr., Martinsburg.

W. Va., Martinsburg—Rev. W. A. Sites will erect brick residence, Windewald; M. L. Compton, Contr., Martinsburg.

W. Va., Martinsburg—Geo. Stephens is erecting 6-room concrete residence, Moler Ave. and High St.; M. L. Compton, Contr., Martinsburg.

W. Va., Morgantown—C. L. Chenoweth, 327 High St., let contract on percentage basis to E. L. Hartman, 12 S. Wilson Ave.,

for \$75,000 residence, Wilson and Linden Sts.; 2 stories and basement, 60x70 ft., stone and tile; Carl Reger, Archt., Traction Bldg., both Morgantown.

W. Va., Wheeling—H. L. Cunningham Will erect \$18,000 residence, Hamilton Ave., Woodsdale; owner builds.

Government and State

Md., Chestertown—Post Office—L. B. Russell and Lawrence Brow, Chestertown, have contract to erect post office, Cross St.

Hospitals, Sanitariums, Etc.

D. C., Washington—National Homeopathic Hospital, Dr. J. H. Branson, Pres., reported let contract to Schneider-Spleidt Co. 1422 F St., N. W., for fireproof addition to hospital, 2nd and N Sts., N. W., 3 stories, 35x60 ft., brick; Delos H. Smith, Archt., 1701 I St., N. W., both Washington.*

Okla., Hominy—City let contract at \$20,000 to Wm. Wilson, Hominy, for brick hospital, 2 stories, 40x72 ft., wood floors, concrete foundation, composition roof; furnishings and equipment about \$8000; heating and plumbing to Mr. Simpson, Okmulgee, Okla. (lately noted Thompson Plumbing Co., Okmulgee); contracts lately noted for wiring, face brick and elevator; Smith & Senter, Archts., Commerce Investment Bldg., Okmulgee.*

W. Va., Terra Alta—State Board of Control, J. S. Lakin, Pres., Charleston, W. Va., is erecting nurses' home at State Tuberculosis Sanatorium; frame; material to be ordered and sub-contracts let by State Board of Control; construction under supervision of Geo. H. Falkenstein, in charge of construction, State Tuberculosis Sanatorium, Hopewell, W. Va.; foundation in; finishing lumber purchased.

Hotels and Apartments

Fla., Jacksonville—Mrs. H. K. Phillips let contract to W. W. Swaim, Russell St., Jacksonville, for building at Doris and Louisa Sts., South Jacksonville, to contain two 5-room apartments.

Fla., Sarasota—Deleplane-Price Development Co. has acquired 1100 acres of land north of Sarasota, and will erect 200-room tourist hotel, 18-hole golf course, 2 solid blocks of stores and apartments and 40 residences to cost from \$10,000 to \$25,000 each; T. A. Monk, Contr., Sarasota.

Fla., Stuart—Pelican Hotel Co., J. E. Taylor, Pres., let contract to G. C. Miller & Co., Miami, for \$175,000 Pelican Hotel, on St. Lucie River at East End Ave.; 70 guest rooms; Pfeiffer & O'Reilly, Archts., Lemon City, Miami.*

Fla., West Palm Beach—Mrs. J. Clinch has leased Keystone Hotel and is renovating.

Ky., Louisville—J. Hoffman Construction Co. of Evansville, Ind., reported to erect \$500,000, 7-story apartment building, N. W. cor. Second and York Sts.

Miss., Yazoo City—Directors of Yazoo City Hotel Co. let contract to Standard Construction Co., Meridian, Miss., at \$73,126, for erection of hotel building; Sanitary Heating Co., Vicksburg, plumbing and heating at \$16,312.74; Electric Construction Co., Jackson, electric wiring at \$4240; Otis Elevator Co., New Orleans, La., has contract for installing elevator at \$4442; C. H. Lindsley, Archt., 50-53 Kress Bldg., Jackson, Miss.*

Mo., Kansas City—McGee Hotel & Restaurant Co., J. Alport, lessee of McGee Hotel, 17th and McGee Sts., let contract to R. D. Shore, 1600 50th St. Terrace, Kansas City, for enlarging and converting into 48-room hotel; erecting 2-story addition to contain 4 store rooms on first floor with 20 rooms each with bath, above.

Mo., St. Louis—George Blum will erect \$13,000, 2-story, brick tenements at 4223-25 California St.; gravel roofs, hot air heat; owner is builder and architect.

Mo., St. Louis—C. B. Prose, 3521 N. Jefferson St., will erect two 2-story, brick, 37x53 ft. tenements at 4030 and 34 Palm St.; E. P. Prose, Builder and Archt., 3521 N. Jefferson St., St. Louis.

Mo., St. Louis—A. K. Richardson, 5200 Nottingham St., will erect three 2-story, brick tenements, 25x48 ft. each, slate roofs, furnace heat; A. P. Richardson, Builder and Archt., 5200 Nottingham St.

Mo., St. Louis—Clyde E. Fisher Real Estate Co., International Life Bldg., let contract to May Building & Investment Co., 808 Chestnut St., St. Louis, for two 2-story and basement, \$12,000, 4 suite apartment buildings at 3026-28 Taylor Ave. and 4135-37 Greenlen Ave.; Oliver J. Popp, Archt., 1501 Arcade Bldg., St. Louis.

N. C., Charlotte—Blythe & Isenhour, Contrs., Brevard Court, will erect \$18,000, 2-story, 75x40 ft., 16-room, 4-apartment building on Providence Road, Myers Park.

Tenn., Memphis—J. W. Hill Co. has contract for steam heating plant to cost \$60,000, for \$4,000,000 Hotel Peabody.*

Tex., Beeville—Beeville Hotel Co., Jesse A. Chase, Sec., will let contract to Jacob Banskach, 217 Spofford Ave., San Antonio, for erection of 100-room Kohler Hotel; plans will be revised and contract lowered accordingly; \$70,000, 2 stories, brick and concrete; W. C. Stevenson, Archt., Beeville.*

Tex., Dallas—Stanberry Alderman, 501 Centre St., has plans by Sadler & Russell, Melba Bldg., Dallas, and let contract to Smith & Taylor, Dallas, for 2-story, frame, duplex apartment building at Adams and Center Sts.

Tex., Dallas—R. L. Garrett, 2712 Holmes St., is erecting \$14,000, 2-story, 8-apartment building at 4707 Gaston Ave.

Tex., Laredo—Casso-Guerra & Co. let contract to Clarence Guerra & Co., Laredo, for converting second story of store building into 8 apartments; Adams & Adams, Archts., Gibbs Bldg., San Antonio.

Tex., Plainview—R. H. Knoohuizen and A. E. Boyd let contract to L. D. Harrison, Plainview, for \$30,000, brick, 14-apartment building; edge grain pine floors.

W. Va., Bluefield—George Stovall let contract to Hancock & Sons, Krise Bldg., Lynchburg, Va., and Bluefield, for erecting 3-story business and apartment building at Bluefield Ave. and Mulberry St.; brick and steel.

Va., Suffolk—Mrs. George Nurney let contract to Sullivan & Nurney, Inc., for \$45,000, 6-family, brick apartment building on Clay St.; Walter C. Fain, Archt., Norfolk.

Miscellaneous

Fla., Fort Pierce—Casino—Fort Pierce Financing & Construction Co. let contract to C. E. Cahow, Fort Pierce, for erecting \$50,000 casino on Fort Pierce Beach; 2 stories, Spanish design, hollow tile, reinforced concrete and stucco, 110x90 ft.; restaurant, porches and 300 bath rooms on first floor; amphitheater and ballroom on second floor; Wm. W. Hatcher, Archt., Fort Pierce.

Fla., Miami—Gateway, etc.—W. B. Ferris let contract to J. C. Betteridge for erection of gateway entrance, boathouse and transformer room, to cost \$24,000, at El Retiro on Belle Isle; Walter DeGarmo, Archt., Miami.

Mo., St. Louis—Photo Studio—Gerhard Sisters, 3622 Olive St., let contract to John H. Kossman, 5207 L'ette Ave., St. Louis, for \$20,000, 1-story, 32x80 ft., brick and con-

crete, photo studio; composition, asphalt shingle and tar and gravel roof; cement and oak floors, concrete foundation, hollow tile, ventilators, wire glass; Koppen-Smith, 2628 Olive St., steam, oil burner heating; Euler Electric Co., 3151 S. Grand Blvd., electric wiring; Clarence A. Koenig, Archt., Edmund Bldg., 3621 Gravois St.; all St. Louis.*

Tex., San Antonio—Memorial—Old Trail Drivers' Assn., Geo. W. Saunders, Pres., let contract to C. L. Moore, mgr. of Southern Marble & Stone Co. of Yoakum, Tex., for erecting \$30,000 monument.

Railway Stations, Sheds, Etc.

Ark., Jonesboro—St. Louis & San Francisco Rwy. Co., F. H. Jonah, Ch. Engr., St. Louis, Mo., will expend \$20,000 for remodeling, enlarging and installing new heating plant in Union Station; work by Construction Department of Company.

Ark., Newport—Missouri Pacific R. R. Co., E. A. Hadley, Ch. Engr., 1055 Rwy. Exchange Bldg., St. Louis, let contract to H. O. Hirsch & Co., Wainwright Bldg., St. Louis, for alterations and addition to depot.*

Florida—Florida Western & Northern Railway Co., C. W. Bonsal Pres., Charleston, S. C. let contract to Elliott Building Co., Inc., J. M. Setzer, Vice-Pres. & Sec., Hickory, N. C., at more than \$200,000, for erection of freight and passenger stations on their line from Coleman, Fla., to West Palm Beach, Fla.; work covers combination depot at Center Hill, Auburndale and Okeechobee; passenger depot at Winter Haven, Lake Wales, Avon Park and Sebring; freight depots at Winter Haven, Avon Park and Sebring; hollow tile construction, stucco and plastered, cement and tile floors, Johns-Manville and tile roofs; desire prices on tile and terrazzo floors, plumbing, roofing and electrical work, plastering and stucco.

Fla., McClenny—Seaboard Air Line Ry. Co., Chas. R. Capps, Vice-Pres., Norfolk, Va., let contract to C. V. York, Hayes Barton St., Raleigh, N. C., for brick (exterior) passenger station.

Ky., Ashland—J. E. Moss Iron Works, 4 Twenty-eighth St., Wheeling, W. Va., has contract for 823 tons structural steel for Chesapeake & Ohio Rwy. Co.'s passenger station, for which Jos. E. Nelson & Sons, 3240 S. Michigan Ave., Chicago, Ill., has general contract; cost about \$500,000; Graham, Anderson, Probst & White, Archts., 80 E. Jackson Blvd., Chicago, Ill.*

Tex., Brenham—Gulf, Colorado & Santa Fe and Houston & Texas Central Railroads are making extensive improvements to Union Passenger station; new tile roof, renovated and painted, new seats and furnishings.

Tex., Sulphur Spring—St. Louis Southwestern R. R. Co., W. S. Hanley, Ch. Engr., Tyler, let contract to Mote & Baldwin, 1509 McCoy St., Dallas, for erection of passenger station.

Schools

Md., Baltimore—Mayor and City Council let contract to Henry L. Maas & Son, Munsey Bldg., Baltimore, at \$14,500, for erecting school building at Reisterstown Road and Rogers Ave.; O. Eugene Adams, Archt., Equitable Bldg., Baltimore.*

Md., Hagerstown—Washington County Board of Education, B. J. Grimes, Supt., Court House, let contract to C. B. McWolf, Court House, for interior alterations and remodeling colored school; \$20,000, 2 stories brick; A. J. Klinkhart, Archt., 53 Washington St., Hagerstown.

Md., Highfield—Washington County Board of Education, B. J. Grimes, Supt., Court

House, Hagerstown, let contract to Thos. E. Eyler, Highfield, for \$20,000, 2-story, brick 4-room school building; A. J. Klinkhart, Archt., 52 W. Washington St., Hagerstown.

Md., Oldtown—Allegheny County Board of Education, Ferman J. Pugh, Pres., 105 S. Center St., Cumberland, let contract to George A. Bowman, 424 Baltimore Ave., Cumberland, at \$50,000, for 2-story, 55x77 ft. brick, concrete and mill school building; e. g. yellow pine and concrete floors, concrete foundation, tin roof, hollow tile, interior tile, metal ceilings, ventilators, wire glass.*

Md., Salisbury—State of Maryland, Board of Education, A. S. Cook, Supt., Lexington Bldg., Baltimore, let contract to Consolidated Engineering Co., Calvert Bldg., Baltimore, for completion and addition to State Normal School; \$115,000, 3 stories, 157x155 ft., Smith & May, Archts., Calvert Bldg., Baltimore.*

Mo., Maryville—Northwest Missouri State Teachers' College Board of Regents, W. F. Phares, Chmn., let contract to Thos. W. Hackett Co., 1024 Church St., St. Joseph, Mo., at \$87,375, for brick fireproof, 90x144 ft., 1-story gymnasium building; maple and concrete floors, cement and brick foundation, tin roof; Walter Boschen, Archt., 517½ Francis St., St. Joseph.*

Okla., Tulsa—Board of Education, Frank E. Duncan, Pres., let contract to R. M. Gilliam, 203 Lynch Bldg., Tulsa, at \$142,429 for erection of Eugene Field Junior High School; Watt Plumbing Co., 610 S. Cincinnati St., plumbing, drainage and heating at \$61,000; Dodge Electrical Co., 316 S. Bould St., electrical work at \$6384; Leland I. Shumway, Archt., 725 Wright Bldg., all Tulsa.*

S. C., Clinton—School Board let contract to C. M. Guest & Son, Anderson, S. C., for \$55,000, 2-story, 10-room and auditorium grammar school building; brick trimmed in limestone.

Tex., Austin—State Board of Control, S. B. Cowell, Chmn. let contract to H. E. Wattinger, 504 Oakland Ave., Austin, at \$35,885, for reinforced concrete, hollow tile backing, face brick, Industrial Building at State School for Feeble Minded; concrete slab composition roof, reinforced concrete foundation, concrete slab and wood floors, 2 stories and basement; Harper & Lipscomb, 210 W. 13th St., wiring at \$906; Donnelly & White, 905 Congress Ave., plumbing at \$2235; John L. Martin, 217 W. Eighth St., heating at \$2155; H. F. Kuehne, Archt., 826 Littlefield Bldg.; all Austin.*

Tex., Rockwell—School Board let contract to Robert H. Brown Construction Co., McKinney, for \$50,000 high school building; E. L. Vickery Plumbing Co., McKinney, plumbing; J. C. Korlith Co., Sherman, steam heat; Lindsay & Kilmer, Archts., Greenville, Texas.*

Tex., Taft—Board of Education, Jeff Lowe, Chmn., let contract to Manhattan Construction Co., Manhattan Bldg., Muskogee, Okla.,

at \$15,900, for 1-story, brick and stone, 85x104 ft. school building; built-up 4-ply asphalt roof, concrete foundation, e. g. yellow pine and concrete floors, hollow tile, metal ceilings; S. E. Barnes & Co., Archts., Muskogee, Okla.*

Tex., Woodville—School Board let contract to Jack Davis, Beaumont, for erection of \$30,000, brick school building.

Va., Bristol—Fred Hayes has contract for heating and plumbing on Bethel and Greendale school buildings in Washington County, and heating contract on Wallace High School.*

Va., Portsmouth—School Board, H. A. Hunt, Supt., Amistead Bldg., let contract to American Heating & Ventilating Co., Inc., Times Dispatch Bldg., Richmond, at \$13,410, for installing heating plant in Sixth Ave. school, under construction by J. W. Watson, Board of Trade Bldg., Norfolk.*

Stores

Ala., Bessemer—Mrs. Sam Romano let contract to W. Coston & Son, Bessemer, at \$10,500, for 1-story, brick, 79x60 ft. stores at 19th St. and Carolina Ave.; concrete floors and foundation, built-up asphalt roof, hollow tile, plaster board, ventilators; Minton & Martin, lighting; W. O. Hodgkin, Engr., 208 Bessemer Trust Bldg., both Bessemer.*

Fla., Largo—M. W. Ulmer let contract to D. J. Dewar, Largo, for extension to Ulmer Block, Bay Drive and Railroad Ave.

Fla., Plant City—W. D. Marley let contract to Paul Smith, Haines City, for erecting 60x100 ft., 1-story, hollow tile and stucco building.

Fla., Miami—Hotel Halcyon Corp., Thos. J. Peters, Pres., 256 N E Second St., will erect \$150,000 arcade building extending through from E. Flagler St. to N. E. First St.; about 80-ft. frontage on both E. Flagler St. and N. E. First St., and 290 ft long; reinforced concrete and hollow tile, fireproof; present building will be 2 stories, with foundation and walls built to carry 5 stories, arcade 15 ft. wide, 40 stores and shops on first floor with 45 offices above; Pfeiffer & O'Reilly, Archts., Lemon City; P. J. Davis Construction Co., Contrs., Calumet Bldg., Miami.

Fla., Sarasota—Delplane-Price Development Co. will erect 2 blocks of 2-story store and apartment buildings; T. A. Monk, Contr., Sarasota. (See Hotels and Apartments—Contracts Awarded.)

Fla., Titusville—F. F. & B. Company has let contract for remodeling 3 store buildings.

La., New Orleans—United Cigar Stores Co., 637 Canal St., will expend \$20,000 for alterations and repairs to building at 301 St. Charles St.

La., New Orleans—E. B. Rowan has plans by and let contract to Thos. Ridgley, 919 Jackson Ave., New Orleans, for 2-story, brick and frame, \$25,000 store building at Tchoupitoulas and Girod Sts.

Md., Baltimore—William Morgenstein, 1442

E. Fort Ave., let contract to Henry A. Knott, 2101 N. Calvert St., Baltimore, for \$25,000, 2-story, 25x50 ft., brick and stucco store and apartment building, Gwynn Oak Ave. and Windsor Mill Road; Herbert C. Alken, Archt., 2101 N. Calvert St., Baltimore.

Mo., Fleming—A. J. Tinsley and George McCullough are erecting business buildings.

Mo., St. Louis—Frank Dubinsky, Wainwright Bldg., let contract to A. H. Stiehl, 813 Chestnut St., St. Louis, for erecting \$25,000, 1-story and basement, 60x80 ft., brick 3 stores, 5500 S. Kingshighway Blvd.; H. W. Guth, Archt., 813A Chestnut St., St. Louis.

Mo., St. Louis—Missouri Realty & Construction Co., 5989 Page Ave., is erecting 3-story, concrete and brick, metal lath building at 6111 Page Ave., to contain 4 stores and 16 apartments; cork, tile and hardwood floors, concrete foundation, interior tile, metal ceilings, concrete roofing; Frank Carter, 3228 California Ave., heating; Modern Electric Co., 4539 Olive St., electric wiring; William Beckman, 4515A Clarence St., plumbing; H. Guth, Archt., 813 Chestnut St.; all St. Louis.*

N. C., Ahoskie—George J. Newbern & Co. let contract for erection of brick business building on East Main St.

N. C., Duke—Erwin Cotton Mills Co. let contract to Elliott Building Co., Inc., J. M. Setzer, Vice-Pres. & Sec., Hickory, N. C., for erecting store building.

Tenn., Madisonville—R. C. Kefauver is erecting brick building on Masonic Hall site, to be occupied by Fowler Bros. & Cox.

Tex., Marshall—Wheeler's Grocery & Market is erecting 26x60 ft. store building on East Grand Ave.; George Holmes, Contr.

Theatres

Tex., Greenville—Shepherd Bros. Contracting Co. has contract for erection of theater building; 2-story front of green face brick, terra cotta tile roof; W. R. Ragsdale, Archt., Greenville.

Warehouses

Fla., Daytona—F. A. Root will erect 2 warehouses for local terminals and 1 wholesale house; 50x100 ft. each, 1-story; also 20x50 ft. office building; concrete walls, floors and foundation; gravel roof, cost \$10,000 each, metal doors, ventilators; owner builds. (See Machinery Wanted—Hoist (Gasoline); Tanks.)

Fla., Miami—Crane Co. of Chicago, Ill., will erect \$48,000, tile, 1-story warehouse at Tenth St. and First Ave.; A. Geiger, Archt., Townley Bldg.; St. John Construction Co., Contrs.

Tenn., Knoxville—A. G. Heins & Co., E. Jackson St., let contract to A. J. Star & Son, Mercantile Bldg., Knoxville, for 2-story, brick and concrete warehouse; Manley, Young & Meyer, Archts., 302 W. Church Ave., Knoxville.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Advertising Signs.—J. Trenton Meere, Meere Bldg., Chattanooga, Tenn.—Wants miniature advertising signs, movable, for window attractions; correspond with manufacturers.

Architectural Terra Cotta.—See Building Materials.

Automobile Accessories.—Lewis Holt, 303 Seventh St., Cushing, Tex.—Wants general line of staple automobile accessories.

Belting.—Wilson-Hock Co. (Mchy. Dealers), City Point, Va.—Wants new or slightly used, 12-in. rubber or leather belting.

Block Lead Letters.—James Kingsmill, R. F. D. No. 4, Erin, Tenn.—Wants quantity block lead letters from one to three inches in diam., to be used in lettering concrete.

Boilers.—See Water Works Equipment.

Bridge.—State Highway Comn., Montgom-

ery, Ala.—Details under Construction News-Road and Street Construction.

Bridge.—State Highway Comn., Montgomery, Ala.—Details under Construction News-Bridges, Culverts, Viaducts.

Bridge.—State Highway Dept., Raleigh, N. C.—Details under Construction News-Bridges, Culverts, Viaducts.

Bridge.—City of Kansas City, Mo. De-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

tails under Construction News—Bridges, Culverts, Viaducts.

Building Materials.—Hall Mackay Construction Co., Contrs., Dolph Bldg., St. Louis, Mo.—Wants prices on marble, tile, granite, cut stone, iron and bronze, also cabinet work.

Building Materials.—E. G. Holladay Co., Contr., 149 N. Fourth Ave., Nashville, Tenn.—Wants prices on architectural terra cotta; reinforcing steel; cut stone; roofing and sheet metal; granite; mill work; gypsum partitions; plastering; miscellaneous iron; hollow metal; windows; painting; marble; tile and terrazzo; back-up and partition tile.

Cabinet Work.—Hall Mackay Construction Co., Contrs., Dolph Bldg., St. Louis, Mo.—Wants prices on cabinet work.

Carbon Cleaning Machine.—Pemberton Carbon Cleaning Machine Co., Gainesville, Fla.—Wants to contract for manufacture of complete carbon cleaning machine or for parts to be assembled for 20,000 machines probably required in next eighteen months, consisting of brass tubing, flexible shaft and housing, pulleys, 1/8 h.p. electric motor and fan, flexible air hose, tripod stand and table, belting, etc.; initial order will be for construction of 100 machines which will require from 100 to 700 each of the above items; prefer nearby manufacturers on account of freight.

Cement.—James Hamilton, Jr., Mgr., Mullikin Farm Supply Co., Inc., Mitchellville, Md.—Wants prices on cement.

China Plates.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Will receive bids Oct. 17 for 834 doz. plain white vitrified chinaware, hotel weight.

Door Closers.—U. S. Veteran Bureau, Supply Division, Washington, D. C.—Wants 325 door closers, 7½x3, cast iron bodies, bronzed finish, Corbin 104 or equal; also 65 door closers, 7x2½, Corbin 103 or equal.

Dredging.—S. S. Martin, Director of Finance, St. Petersburg, Fla.—Will receive bids Oct. 20 for widening and deepening of Bear Creek from Central Ave. south, about 5000 ft. and north for distance of 500 ft.; comprising 36,500 cu. yds. excavation.

Drainage.—Harris County Commrs. of Drainage Dist. No. 7, Houston, Tex.—Details under Construction News—Drainage and Irrigation.

Dredging.—U. S. Engineering Office, Norfolk, Va.—Will receive bids Nov. 8 to dredge in Elizabeth river, at Norfolk and re-construct about 182 lin. ft. of timber wharf along side of area to be dredged.

Dredge.—F. D. Lincoln Co., Inc., 50 Church St., New York City—Wants continuous bucket type dredge, 500 Y. P. H., with or without screens, washers, etc.

Electric Light System.—Chamber of Commerce, J. T. Whelden, Sec., West Point, Ga.—Wants to correspond with manufacturers of white way system.

Electric Work.—Elliott Building Co., Inc., Hickory, N. C.—Wants prices on electrical work for depots, to cost over \$200,000, between Coleman, Fla. and West Palm Beach, Fla.

Engine (Hoisting).—J. L. Anderson, Cheraw, S. C.—Wants one 7x10 or 8x10 D.C. D.D. skeleton type hoisting engine with swinging attachment.

Eye Bending Machine.—H. H. Elder, 30 N. Michigan Ave., Chicago, Ill.—Wants Coulter & McKenzie eye bending machine.

Filtration Plant Equipment.—See Water Works.

Fertilizer.—James Hamilton, Jr., Mgr.,

Mullikin Farm Supply Co., Inc., Mitchellville, Md.—Wants prices on fertilizer.

Fire Escapes.—Board of Awards, F. A. Dolfeld, City Register, Baltimore, Md.—Will receive bids Oct. 22 for fire escapes for schools Nos. 9, Fayette and Green St.; 84 Johnson and Heath St.; and 103 Division near Lanvale St.; C. H. Osborne, Inspector of Bldgs.

Flooring (Tile and Terrazzo).—Elliott Building Co., Inc., Hickory, N. C.—Wants prices on tile and terrazzo floors in connection with their contract, at over \$200,000, for erecting freight and passenger stations from Coleman, Fla., to West Palm Beach, Fla.

Garage Equipment.—John H. Vaden, Prop. East End Garage, Box 335, Huntington, W. Va.—Wants second-hand burning stand for Ford motors.

Garage Equipment.—Lewis Holt, 303 Seventh St., Cushing, Tex.—Wants complete equipment for authorized Ford sales and service station.

Gasoline and Kerosene.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Will receive bids Oct. 25 to furnish motor grade gasoline and kerosene. Blank forms and information (Circular 1635) on application to office of Panama Canal; Asst. Purchasing Agts. at Fort Mason, San Francisco, Cal.

Grading.—City of Baltimore, Md. Details under Construction News—Road and Street Construction.

Granite.—See Building Materials.

Gravel.—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, La.—Will receive bids Nov. 12 to furnish gravel to surface 2.179 mi. road in East Baton Rouge Parish; plans, etc., on file; J. M. Fourmy, State Highway Engr.

Hardware, Etc.—Washington Suburban Sanitary Comsn., Evans Bldg., New York Ave., N. W., Washington, D. C.—Will receive bids Oct. 22 to furnish hardware and miscellaneous supplies, Contr. 44.

Hoist (Gasoline).—F. A. Root, Daytona, Fla.—Wants gasoline hoist for hoisting concrete, also suitable for handling pile driver hammer, weight 2000 pounds.

Hotel Construction.—B. D. Brantley, Blackshear, Ga.—Wants to correspond with individual interested in building and operating small hotel.

Ice Plant Machinery.—Box 851, Shreveport, La.—Wants machinery for 25 ton ice plant.

Iron and Bronze.—See Building Materials.

Iron (Miscellaneous).—See Building Materials.

Iron Stairs, Etc.—Treasury Dept., Supvg. Architect's office, Washington, D. C.—Will receive bids Oct. 30 for iron stairs, basement to first floor, enlarging basement windows, deepening of areas, etc. in U. S. Post office and Court House, Greenville, S. C.

Lawn Cleaners.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Will receive bids Oct. 22. 2 lawn cleaners, hand drive, 36-in. width, with interchangeable brush and rake attachments; Pennsylvania or equal.

Laundry Plant Equipment.—Calhoun Machinery Exchange (Mchy. Dealer) El Reno, Okla.—Wants complete laundry outfit for town of 5000 inhabitants, second-hand equipment.

Levee.—U. S. Engineer Office, Customhouse, 140 Decatur St., New Orleans, La.—Will receive bids Oct. 22 to construct about 255,000 cu. yds. of earthwork in Atchafalaya Levee Dist.

Locomotives.—F. D. Lincoln Co., Inc., 50 Church St., New York City—Wants 36-in. gauge locomotives, 25/40 tons, Moguls—12x18 to 15x22, 150 lbs. steam or better.

Lumber.—The Quartermaster, U.S.M.C., Room 3207, Navy Bldg., Washington, D. C.—Will receive bids Oct. 17 for 50,000 ft. B. M. of yellow pine lumber; delivery f.o.b. Quantico, Va. Sch. No. 217.

Marble.—See Building Materials.

Miscellaneous Supplies.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Will receive bids Oct. 16 for following: 8 rolls asbestos fire-felt, Sch. No. 220; etching compound and lamp coloring, Sch. No. 219; and 1000 lbs. Grade A. Pig lead, Sch. 218; delivery Post Quartermaster, Quantico, Va.

Miscellaneous Supplies.—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Will receive bids Oct. 24 for 50 rubber bandages, 2½-in.x12-ft., Hospital Supply Co.'s No. 706 or equal; 100 rubber cushions (invalid ring) Davel Rubber Co.'s No. 454 or equal; 800 rubber tips for crutches and furniture, size No. 19, 7/8-in., Hospital Supply Co.'s catalog No. 998 or equal.

Mortiser (Hub).—Thornhill Wagon Co., Lynchburg, Va.—Wants second-hand Deftance hub mortiser, No. 1, 1½ or 2.

Mud Shell.—John H. Murch, Galveston County Auditor, Galveston, Tex.—Will receive bids Oct. 21 for 10,000 tons of mud shell; f.o.b. cars or chute Galveston.

Multigraph Machines.—Z. J. Carter & Son (Mchy. Dealers) Wallace, N. C.—Wants multigraph machines; correspond with manufacturers.

Nails.—See Wire Fencing, etc

Oven (Portable).—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Will receive bids Oct. 24 for cabinet type, portable oven for U. S. V. H., Muskogee Hospital.

Pans (Aluminum).—U. S. Veterans Bureau, Supply, Division, Washington, D. C.—Will receive bids Oct. 17 for aluminum baking pans; The Aluminum Cooking Utensil Co.'s No. 247 or equal.

Paper (Parchment).—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Wants about 200 yds. of buff or yellow paper, unbacked for lampshades, 42-in. wide in rolls, approximately 35 yds. to roll.

Paving.—Town of Forest City, N. C.—Will receive bids Oct. 22 for 5500 sq. yds. paving; The Carolina Engineering Co., Engrs., Charlotte, N. C.

Paving.—City of Fort Lauderdale, Fla. Details under Construction News—Road and Street Construction.

Pig Lead.—See Miscellaneous Supplies.

Pipe.—See Water Works.

Pipe.—J. D. Wrather, Engr. Big Four Refining Co., Amarillo, Tex.—Wants 18 mi. of 3 or 4-in. pipe.

Pipe (Cast Iron).—Ehrhardt Waterworks Comsn., J. R. Hiers, Clk., Ehrhardt, S. C.—Wants prices on cast iron piping for standard water works.

Pipe.—See Water Works Equipment.

Planers.—R. P. Johnson (Mchy. Dealer) Wytheville, Va.—Dealers prices on two good second-hand, heavy four side planers, about 24x8-in.; similar to No. 369 Fay-Egan; prompt shipment and ready for work.

Plastering and Stucco.—Elliott Building Co., Inc., Hickory, N. C., desires prices on plastering and stucco for freight and passenger stations between Coleman, Fla. and West Palm Beach, Fla., for which they have contract at over \$200,000.

Plumbing.—Elliott Building Co., Inc.,

Hickory, N. C.—Wants prices on plumbing for freight and passenger stations from Coleman, Fla. to West Palm Beach, Fla., for which they have contract at over \$200,000.

Pumps (Centrifugal).—Wilson-Hock Co. (Machy Dealers) City Point, Va.—Wants centrifugal pumps, 500 gpm, 6-in. discharge with or without 3 phase, 60 cycle, 440 volt motor.

Pumps.—See Water Works Equipment.

Pumps (Gasoline), Etc.—Jas Simpson, City Purchasing Agent, San Antonio, Tex.—Will open bids Oct. 13 for three gasoline pumps, 5 gal. stroke piston type; two 280 gal. 12 gauge steel tanks and one 550 gal. 12 gauge steel tank.

Ranges (Gas).—U. S. Veterans' Bureau, Supply Division, Washington, D. C.—Will receive bids Oct. 21 for two gas ranges, approximate size, 27-in. wide, 31½-in. high and 18-in. deep.

Road.—Chesterfield County, Chesterfield, S. C. Details under Construction News—Road and Street Construction.

Road.—Wilson County, Floresville, Tex., will build 4 roads. Details under Construction News—Road and Street Construction.

Road.—City of Knoxville, Tenn. Details under Construction News—Road and Street Construction.

Road.—Letcher County, Whitesburg, Ky. Details under Construction News—Road and Street Construction.

Road.—State Highway Comm., Raleigh, N. C., will build 9 roads. Details under Construction News—Road and Street Construction.

Road.—Louisiana Highway Comm., Baton Rouge, La., will build 2 roads. Details under Construction News—Road and Street Construction.

Road.—State Highway Comm., Montgomery, Ala. Details under Construction News—Road and Street Construction.

Road.—State Roads Comm., Baltimore, Md. Details under Construction News—Road and Street Construction.

Roofing.—Elliott Building Co., Inc., Hickory, N. C., Wants prices on roofing for freight and passenger stations between Coleman, Fla. and West Palm Beach, Fla., to cost over \$200,000.

Roofing and Sheet Metal.—See Building Materials.

Sewer System.—See Water Works and Sewer System.

Sewer System.—Comms. of Sewerage of Louisville, Ky., Matt H. Crawford, 417 W. Main St., Chrmn.—Will receive bids Nov. 14 for construction of central relief drain in Eighth St. from Ohio River to Broadway; bids are invited on alternate types of construction i.e. open trench of timber tunnel (Type B) and shield driven tunnel (Type C); approximate quantities are: 4243 lin. ft. of trench or tunnel; 225 lin. ft. of tunnel; 6000 cu. yds. of Class A concrete; 433,000 lbs. of reinforcing steel; 6 tons of steel sheet piling; 5000 lin. ft. of timber piles; 10,500 ft. b.m. timber to be left in place excluding timber in tunnel and tunnel shafts; 410 sq. yds. of street repaving; cost about \$500,000; J. B. F. Breed, Ch. Engr.

Sewer System.—Board of Comms. of Sewer Dist. No. 99, Little Rock, Ark.—Will receive bids Oct. 11 for construction of sewer system; approximate quantities are 3600 ft. of 6-in. sewer; 6800 ft. of 8-in. sewer, together with all necessary Y branches, manholes and sewage disposal plant complete; Dickinson & Watkins, Engrs.

Shoe String Machinery.—See Textile Machinery.

Shredders.—Hackley Morrison Co. (Mchy. Dealer), 1708 Lewis St., Richmond, Va.—Wants two 20-in. Williams shredders.

Soapstone.—Malcolm J. McFarlane, 7435 Hampson St., New Orleans, La.—Wants to purchase soapstone to use in the manufacture of fireless cookers.

Spectacles (Smoked).—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Will receive bids Oct. 17 for 200 pairs of smoked spectacles; Hospital Supply Co.'s Cat. No. 1017 or equal.

Steel (Reinforcing).—See Building Materials.

Steel Framing, etc.—Z. J. Carter & Son, Wallace, N. C.—Wants steel framing for garages and small buildings, also siding and roofing; correspond with manufacturers.

Street Paving, etc.—Town of Eustis, Fla. Details under Construction News—Road and Street Construction.

Street Paving.—Town of Crescent City, Fla. Details under Construction News—Road and Street Construction.

Tank and Tower.—See Water Works.

Tanks.—See Pumps (Gasoline), etc.

Tanks.—F. A. Root, Daytona, Fla.—Wants oil tanks, capacity under 20,000 gals. each.

Test Tubes.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Wants 5000 test tubes for serological work; A. H. Thomas Co.'s Catalog No. 9446 or equal.

Textile Machinery.—American Yarn & Processing Co., J. M. Hatch, Sec., Mount Holly, N. C.—Wants data on machines to make shoe strings, particularly interested in the automatic machine for putting on the metal tips; correspond with both American and foreign manufacturers.

Textile Machinery.—M. Tejera Peignand, Arzobispo Merino 46, Santo Domingo, West Indies.—Wants machines for woven stuffs and ribbons; correspond with manufacturers.

Tile (Back-up and Partition).—See Building Materials.

Tile.—See Building Materials.

Tooth Brushes.—E. K. McCoy, 408 W. Thirtieth St., Norfolk, Va.—Wants to purchase tooth brushes in quantities; correspond with manufacturers.

Transformers.—Wilson-Hock Co., (Mchy. Dealers) City Point, Va.—Wants three 50 k.v.a. each and three 150 k.v.a. each, 2200/230/460 volts, single phase, 60 cycle, General Electric type H preferred.

Transformers.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Will receive bids Oct. 19 for following transformers four 16 k.v.a., one 25 k.v.a., four 37½ k.v.a., and two 50 k.v.a. 4400 volt, primary 115/230 volt secondary; all transformers shall be General Electric, Westinghouse Electric and Manufacturing Co.'s manufacture or equal; prices f.o.b. Rutland, Mass.

Trucks.—F. D. Lincoln Co., Inc., 50 Church St., New York City.—Wants 36-in. gauge trucks, 4 or 8-24-in. wheels, spring bolsters, can use 12 to 20 or more.

Tunnel.—U. S. Engineer Office, 250 Old Land Office Bldg., Washington, D. C.—Will receive bids Nov. 4 for construction of tunnel for the second high service of the water supply, for District of Columbia.

Vending Machines (Chewing Gum).—Orange-Crush Bottling Co., 827 S. Gay St., Knoxville Tenn.—Wants data and prices on chewing gum vending machines.

Water Works and Sewer System.—City of Sebring, Fla., A. E. Lawrence, Mayor—Will

receive bids Nov. 10 to furnish material and construct water works and sanitary sewer system:

Water works will consist of approximately 9 mi. of 6, 8 and 10-in. cast iron pipe, with specials, valves and hydrants, a 200,000 gal. concrete clear water collecting well, pump station and equipment and a 100,000 gal. elevated tank. Sewer system will consist of approximately 2 miles of 8, 10, 12 and 15-in. vitrified pipe, with manholes, flush tanks, and appurtenances and a settling tank and tile with under-drain system; Paul H. Norcross, Coast. Engr., 1404 Candler Bldg., Atlanta, Ga.

Water Works Equipment.—City of Greensboro, N. C., P. C. Painter, City Mgr.—Will receive bids Oct. 21 for the following:

Reedy Fork Pumping Station.—One 250 h.p. boiler with steel casing; one 7,500,000 gal. steam turbine driven centrifugal pump; boiler feed pump; brick stack; all necessary steam and water pipes to connect boiler and pumps to present lines.

City Pumping Station.—One 6,000,000 gal. pump, all necessary steam and water pipes to connect to present lines; price to include erection and testing of work on foundations erected by City; M. M. Noyles, Water Engr.

Water Works.—Comms. of Public Works, Ehrhardt, S. C.—Will receive bids Nov. 5 to construct complete water works system, consisting of the following: water distributing system; 10-in. well (approximately 600 ft. deep); 75,000 gal. tank and tower; iron removal filtration plant; building; pumping machinery; bids will be received from manufacturers for following equipment, pipe, valves, hydrants, filtration plant equipment, pumps, wells, tank and tower; Ryan Engineering Co., Engrs., Arcade Bldg., Columbia, S. C.

Water Works and Sewer System.—City of Shreveport, La., L. E. Thomas, Mayor—Will receive bids Oct. 28 for extension of water works and sewer system, approximately 3 miles of 30-in. water conduit; The J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, Pa.

Water Works.—Town of Hollister, Okla., O. B. McFall, Clk.—Will receive bids until Oct. 15 to furnish tools, labor and material for constructing water works system; Ernest L. Guyer, City Engr.

Wire Fencing, Etc.—James Hamilton, Jr., Mgr., Mullikin Farm Supply Co., Inc., Mitchellville, Md.—Wants prices on wire fencing and nails.

Water Wheels.—B. H. Stallworth, Monroeville, Ala.—Wants over-shot water wheel for power; correspond with manufacturers.

Financial News

New Financial Corporations

Ala., Birmingham—South Highland Investment Co. incorporated by K. C., J. R. and R. L. Adams, 4330 First Ave. N.

Ala., Birmingham—Southern Home Savings Co. incorporated by Kendrick S. Stallings, F. M. Houston and J. B. Allgood.

Ala., Boligee—Boligee Banking Co., capital \$25,000, incorporated by F. Allison, Bellamy; R. L. Adams, York, and A. N. Grubbs, Eutaw.

Ala., Monroeville—Monroe County National Bank of Monroeville, capital \$100,000; conversion of Monroe County Bank, Monroeville, Ark., Little Rock—American Southern

Trust Co., Third and Main Sts., capital \$1,000,000, organized with A. B. Banks, Pres.

Fla., Arcadia—Tamihi Investment Co., capital \$25,000, chartered with A. C. Williams, Pres.; J. S. Floyd, Sec.-Treas.

Fla., Daytona—Daytona Investment Co., capital \$15,000, chartered with W. J. Gardner, Pres.; W. P. Adams, Sec.-Treas.

Fla., Fort Myers—M. F. Johnson Investment Co., capital \$10,000, chartered with M. F. Johnson, Pres.; R. Q. Richard, Sec.

Fla., Jacksonville—Eastmoreland Investment Co., capital \$20,000, chartered with H. F. Morris, Pres.; G. M. Gordon, Sec.-Treas.

Fla., Kelsey City—Kelsey City State Bank, capital \$15,000, chartered with Bert Winters, Pres.; Arthur W. Birchard, Cashier.

Fla., Melbourne—Jas. H. B. Woodroffe, interested in organizing real estate and investment company.

Fla., St. Petersburg—Bender-Nichols, Inc., capital \$10,000, chartered with Elwood C. Bender, Pres.; G. E. Nichols, Sec., both Ely Arcade, St. Petersburg.

Fla., St. Petersburg—Title Security Corp., capital \$25,000, chartered with C. K. Charles, Pres.; J. I. Elston, Sec.-Treas.

Fla., West Palm Beach—Riviera Investment Co., capital \$25,000, incorporated with J. Stockton Bryan, Pres.; John C. McNiel, Sec.-Treas.

Md., Baltimore—United States and Foreign Securities Corp., taxable capitalization of \$130,000,000, incorporated by Douglas H. Rose, John H. Jackson, E. Harry Frost, Calvert Bldg.; J. Bannister Hall, Jr., Res. Agt., Calvert Bldg.

Md., Baltimore—Bonded Mortgage Building & Loan Assn., Inc., 210 E. Lexington St., capital \$500,000, chartered by Nathaniel S. Weinstein, Harry Sachs, 2412 Madison Ave., and Max Miller.

Mo., Desloge—Desloge Building & Loan Assn., capital \$500,000, incorporated by C. S. Bryan, R. H. Poston, J. W. Hibbits, and others.

Mo., Jasper—Missouri State Bank of Jasper, capital \$10,000, organized with J. R. Moore, Cashier.

Mo., Kansas City—Inglerose Investment Corp., capital \$500,000, chartered with Lewis N. Rosenbaum, Pres.; John Ingles, Jr., Sec., 2616 E. 6th St.

Mo., St. Louis—Kath-Lou Investment Co., capital \$100,000, incorporated by Geo. T. Myer, 4031 Flora St., Aug. A. Meyer, 4147 Shaw St., Marie C. Meyer and others.

Mo., St. Louis—Reserve Finance Co., capital \$25,000, incorporated by Chas. T. Stevens, 4516 Westminster St., W. M. McCauley, 7549 Teasdale, E. J. Wallace, 4339 Lafayette, and others.

Mo., St. Louis—Victory Loan & Investment Co., incorporated by A. A. Golbart, Gene Simon, Harry A. Mass and others.

Mo., St. Louis—National Credit Alliance, Inc., 1627 Locust St., organized with Flint Garrison, Pres., 5835 Bartmore Ave.; I. T. Vierheller, Sec.*

N. C., Goldsboro—Hood Finance Corp., capital \$250,000, chartered by Gurney P. Hood, Thos. H. Norwood and E. B. Borden, 3rd.

Okl., Muskogee—Commercial National Bank of Muskogee absorbed Exchange National Bank of Muskogee, capital \$300,000; T. F. King, Liquidating Agt.

S. C., Charleston—Special Investment Corp. of Charleston chartered with Walter W. Wilbur, Pres.; Nan A. Bugheimer, Sec.-Treas., 7 Bee St.

S. C., Greenville—Cash Loan Co. of Green-

ville, 201½ S. Main St., capital \$10,000, chartered with W. B. Wilson, Pres.-Treas.; J. C. Peace, V.-P. and Sec.*

Tex., Goldthwaite—First National Bank of Goldthwaite organized with \$25,000 capital; W. E. Miller, Correspondent.

W. Va., Huntington—National Co-operative Thrift Assn., capital \$25,000, incorporated by Wm. J. Hayes, W. A. Williamson, 615 E. Third St., J. R. Trout and others.

W. Va., Williamson—Citizens National Bank of Williamson, capital \$100,000; conversion of Day & Night Bank, Williamson.

New Securities

Ala., Dothan—Water Works—City sold \$750,000 6% bonds to Caldwell & Co., Nashville, Tenn., at \$90.*

Ala., Mobile—Improvement—City, S. H. Hendrix, Clk., sold \$485,000 bonds to Austin Grant & Co., New York, at premium of \$23,522.*

Ala., Mobile—Road and Bridge—Mobile County will vote in Nov. on bonds. Address County Comms.

Fla., Palmetto—Park—City voted \$12,000 bonds; will sell bonds; W. E. Mann, City Clk.*

Ala., Tuscaloosa—Public Improvement—City sold \$109,000 6% bonds to Ward, Sterne & Co., Birmingham, at 102.

Fla., Bartow—Road—Polk County Comms., J. D. Raulerson, County Clk., sold \$60,000 time warrants to W. P. McDonald, at \$58,800.*

Fla., Canal Point—School—City, School Dist. No. 1, will vote Oct. 21 on \$50,000 bonds. Address Pres. School Board.

Ark., El Dorado—Paving—City sold \$98,000 5% bonds to M. W. Elkins & Co., Little Rock, Ark.

Fla., Fort Pierce—Street Improvement—City will receive bids Oct. 29 for \$27,000 district bonds.

Fla., Fort Pierce—Road—St. Lucie County Comms. contemplate \$50,000 bond issue.

Fla., Frostproof—Water-Works, White Way, Park, Sewerage System—Town Council will call election Nov. 17 to vote on bonds.

Fla., Groveland—Street Paving—Town voted \$30,000 bonds. Address The Mayor.*

Fla., Lakeland—Street Improvement, Sewerage—City will vote Nov. 3 on \$775,000 bonds, including \$700,000 for sewerage system, and \$75,000 street improvement; Anton Schneider, City Mgr.*

Fla., Milton—Paving—Town is offering for sale \$37,000 6% special improvement certificates. Address Town Treas.

Fla., Ocala—Municipal Improvement—City, H. C. Sistrunk, Clk., sold \$320,000 5% bonds to A. T. Bell & Co., Bank of South Jacksonville, for \$314,000.*

Fla., Pensacola—Road—Escambia County Comms., Jas. MacGibbon, Clk., rejected bids for \$750,000 bonds.*

Fla., Pompano—Town, T. E. Raines, Clk., will receive bids Oct. 18 for \$15,000 7% gold coupon bonds.

Fla., Port Tampa—Improvement—City, Mrs. Claudia Crosby, Clk., will receive bids this week for \$50,000, 6%, \$1000 denom. bonds.

Fla., Vero—Street and Park—City sold \$95,000 6% bonds to Vero banks, at \$93,200.50; John F. Jenkins, City Clk.*

Fla., West Palm Beach—Inlet—Palm

Beach County, Lake Worth Inlet Dist. Board of Comms. sold \$410,000 5½% bonds to J. C. Mayer & Co., Cincinnati, Ohio, at \$416,500.*

Ga., Athens—Fire Dept. and Water-Works—City will vote Nov. 25 on \$58,000 bonds, including \$25,000 for fire department, and \$33,000 for water-works; O. H. Arnold, Mayor.

Ga., Atlanta—Refunding and Improvement—Georgia Railway & Electric Co. requested authority State Public Service Comn. to issue \$578,000 bonds.

Ga., Atlanta—Street Improvement—City, B. Graham West, Comptroller, will receive bids Oct. 20 for \$175,500 4½% \$1000 and \$500 denom. bonds.

Ga., Augusta—Highway—State of Georgia will vote in Nov. on \$900,000 bonds. Address The Governor.

La., Bastrop—Sewerage—City sold \$125,000, 6% Sewerage Dist. No. 1 bonds to Caldwell & Co., Nashville, Tenn., at premium of \$2500.*

La., Mansfield—School—DeSoto Parish Police Jury sold \$105,000 School Dist. bonds to City Savings Bank & Trust Co., of Shreveport, La., as follows: \$65,000 Grand Cane School Dist., at par plus premium of \$4257; \$40,000 Gloster School Dist., at par plus premium of \$3144.*

La., Natchitoches—Road—Natchitoches Parish Police Jury sold \$1,000,000 bonds, jointly to Slayton & Co., and Stranahan, Harris & Otis Co., all Toledo, Ohio, at par, accrued interest and premium of \$4156.*

Md., Baltimore—Baltimore & Ohio R. R. Co., H. A. Lane, Ch. Engr., Baltimore, requested authority Interstate Commerce Comn. to issue and sell \$9,504,000 4½% equipment trust certificates and to retire \$5,720,000 7% prior lien certificates and \$3,813,333 6% deferred lien certificates.

Miss., Charleston—Road—Tallahatchie County sold \$200,000 6% \$1000 denom. West Tallahatchie Road Dist. bonds to Central National Bank of Memphis.

Miss., Grenada—Road—Grenada County, will vote Nov. 15 on \$100,000 city and Dist. No. 1 bonds, and on \$50,000 Dist. No. 3 bonds. Address County Comms.

Miss., Jackson—Road—Hinds County, Board of Supvrs., contemplate \$400,000 bond issue.

Miss., Jackson—Road—Hinds County Board of Supvrs. will call election Oct. 20 for \$2,000,000 bonds.

Miss., Magnolia—Teachers' Salaries—Pike County Board of Supvrs., Chas E. Brumfield, Clk., sold \$27,500, 6% bonds to Magnolia Bank and Citizens' Saving Bank, of Magnolia.*

Miss., Oxford—Road—Lafayette County Board of Supvrs., will call election Nov. 4 for \$675,000 bonds.

Mo., Albany—Street Improvement—City voted \$60,000 bonds. Address City Clk.*

N. C., Albemarle—School—City sold \$100,000 bonds to Caldwell & Co., Nashville, Tenn., at premium of \$2,125.*

N. C., Asheville—School—City will vote Dec. 6 on \$525,000 bonds; W. L. Brooks, Supt. of City Schools.*

N. C., Bethel—Municipal Light and Power System—City has issued \$25,000 bonds. Address City Clk.

N. C., Charlotte—Tuberculosis Hospital—Mecklenburg County will vote Dec. 9 on \$100,000 bonds. Address County Comms.*

N. C., Davidson—Water—City, W. H. Thompson, Clk., contemplates \$80,000 bond issue.

N. C., Durham—Municipal Improvement—City, C. B. Alston, Clk., sold \$1,300,000 4½% \$1000 denom. water-works extension, street and public improvement bonds to Blair & Co., Kissell, Kinnicut & Co., Graham, Parsons & Co. and Eldridge & Co., all New York, at \$1,301,937 and accrued interest.*

N. C., Ellenboro—Right of Way, Electric Light and Power Line—Town, O. R. Coffield Mayor, plans \$10,000 bonds issue.*

N. C., Franklin—Hydro-Electric—City will sell \$300,000 bonds. Address City Clk.

N. C., Grimesland—Municipal—City, C. L. Everett, Clk., will receive bids Oct. 27 for \$15,000 6% bonds.

N. C., Hendersonville—Street—Board of Commrs., R. R. Aldridge, Clk., will receive bids Nov. 1 for \$20,000, 5½%, \$1000 bonds.

N. C., Morehead City—Street Paving—Board of Town Commrs. authorized \$200,000 bond issue.

N. C., Nashville—County Home, Jail and Bridge—Nash County Commrs., J. B. Boddie, Register of Deeds, sold \$230,000 coupon bonds to American Trust Co., Charlotte, at 100.61.*

N. C., Troy—Water—Board of Commrs. M. A. Nicholson, Clk., will receive bids Oct. 18 for \$40,000 6% \$1000 bonds.

N. C., Washington—Drainage—Board of Drainage Commrs., Albemarle Drainage Dist., J. P. Clark, Sec., will receive bids Oct. 28 for \$220,000, 6% bonds.

N. C., Washington—Road and Bridge—Beaufort County sold \$500,000, 5% bonds to Kalman, Gates, White & Co., St. Paul, at par.

S. C., Columbia—Courthouse—Richland County defeated \$500,000 bonds; John J. Earle, Chmn. of Commrs.*

S. C., Fort Mill—Water-Works Improvement—City, W. R. Bradford, Mayor, sold \$10,000, 6% bonds to J. H. Hillsman & Co., Atlanta, Ga., at \$102.80.*

S. C., Greenville—Park—City, C. G. Wells, Clk.-Treas., will receive bids Oct. 21 for \$110,000, 5% bonds.

S. C., Greenville—Water Works—City will vote Nov. 4 on \$2,000,000 bonds; G. G. Wells, Clk.; R. F. Watson, Mayor.*

S. C., Laurens—Street Improvement—City contemplates \$100,000 bond issue. Address City Commrs.

S. C., Union—School—City voted \$150,000 bonds. Address City Clk.

Tenn., Brownsville—Street Improvement—City sold \$225,000, 5% bonds to I. B. Tigrett & Co. Jackson, at premium of \$1687.

Tenn., Cookeville—Road—Putnam County contemplates bond issue. Address County Commrs.

Tenn., Erwin—School—Unicoi County Court will call election Nov. 15 for \$35,000 bonds.

Tex., Anahuac—Road—Chambers County voted \$15,000 bonds; will receive bids this week for \$15,000 5½% bonds; H. A. Gripon, County Engr.; Joe F. Wilson, County Judge.

Tex., Belleville—Road—Austin County sold \$150,000, 5½% Road Dist. bonds to J. T. Bowman & Co., Austin, at par.

Tex., Brownfield—Water—City plans selling \$50,000 bonds. Address City Clk.

Tex., Cameron—Bridge—Milam County Court sold \$25,000, 6% warrants to Texas Trust Co., Cameron, at par and accrued interest.

Tex., Greenville—School—Hunt County sold \$5000, 5% Common School Dist No. 51 bonds, to State Board of Education at par.

Tex., Groveton—Water and Sewer—City contemplates voting on bonds. Address City Clk.

Tex., Harrisburg—School—City voted \$350,000, 5% bonds; J. S. Deady, Pres. School Board.*

Tex., Harrisburg—School—City sold \$350,000, 5% Harrisburg Independent School Dist. bonds to Brown-Crummer Co., Wichita Kansas, at par and \$2500 bonus.*

Tex., Houston—Improvement—City, O. F. Holcombe, Mayor, will receive bids Oct. 31 for \$1,075,000 5% bonds.

Tex., Houston—Grain Elevator, Fire Boat—Harris County Navigation Dist., Charles Crotti, Asst. Port Director will receive bids Oct. 30, at Port Commrs. office, for \$1,000,000 grain elevator bonds and \$500,000 fire boat bonds.

Tex., Houston—New Orleans, Texas & Mexico Ry., requested authority State Commerce Comm., to issue and sell \$2,784,000, first mortgage 5½% gold bonds; C. S. Kirkpatrick, Ch. Engr., Houston.

Tex., Jacksonville—Street—City sold \$100,000, 5½% bonds to First National Bank of Jacksonville at par plus premium of \$1053.

Tex., Karnes City—Road—Karnes County Road Dist. No. 1 will vote Oct. 23 on \$150,000 bonds; O. N. Powell, County Engr.; D. O. Klingeman, County Judge.

Tex., Livingstone—Water and Sewer—City contemplates voting on bonds. Address City Clk.

Tex., Port Lavaca—Water Works—City voted \$48,000 bonds. Address City Clk.*

Tex., Sherman—Road—Grayson County, Pottsboro Road Dist., will vote Oct. 18 on \$45,000 bonds; H. M. Scott, County Engr., Denison; R. M. Carter, County Judge, Sherman.

Tex., Trinity—Water and Sewer—City, W. W. Murray, Mayor, voted \$77,500 bonds, including \$42,500 water and \$35,000 sewer.*

Tex., Trinity—School—City defeated \$50,000 bond issue; J. A. Vinson, Pres. School Board.*

Tex., Waxahachie—Road—Ellis County, Italy Dist. voted bonds; W. A. Spalding, Engr.; H. R. Stovall, Judge.*

Tex., Wharton—Conservation and Reclamation—Wharton County Commrs. sold \$540,000 Dist. No. 1 bonds jointly to W. L. Slayton & Co., and Prudden & Co., both Toledo, Ohio, and M. W. Elkins, Little Rock, Ark., at premium of \$24,501.

Va., Salem—Improvement—Town, J. P. Broome, Mgr., will receive bids Nov. 1 for \$225,000, 4½% bonds.

W. Va., Charleston—Bridge—Kanawha County Court will call election Nov. 4 on \$2,225,000 bonds.*

W. Va., Charleston—School—Board of Education of Cabin School Dist., Edw. Smith, Sec. will call election Nov. 4 for \$55,500 5½% bonds.

W. Va., Hinton—School—City sold \$150,000, Independent School Dist. bonds to State of West Virginia.

W. Va., Riversville—Water—City voted \$50,000 bonds. Address City Clk.

Financial Notes

Farmers State Bank, London, Ky., will increase capital from \$20,000 to \$25,000; D. F. Brown, Pres.; E. J. Williams, Cashier.

Knoxville Savings & Loan Bank, R. G. Wright, Pres., 2720 E. Fifth Ave., Knoxville, Tenn., increased capital to \$200,000.

Merchants & Mechanics Loan & Savings

Co., Waycross, Ga., will increase capital from \$50,000 to \$75,000. Address D. S. Goodwin.

Owensboro Building & Loan Assn., Owensboro, Ky., increases capital from \$400,000 to \$600,000.

Continental Casualty Co., 206½ Union St., Nashville, Tenn., increased capital from \$1,500,000 to \$2,000,000.

The Equitable Trust Company of New York City has issued a new pamphlet showing how unprotected estates are wasted and also describing a simple method of protecting such property.

Standard Life Insurance Co., 200 S. Fourth St., Memphis, Tenn., increased capital from \$125,000 to \$250,000.

Commercial Finance Co., Wheeling Bank & Trust Bldg., Wheeling, W. Va., will increase capital from \$50,000 to \$100,000.

Taylor Building & Loan Assn., Taylor, Tex., increases capital from \$1,000,000 to \$2,000,000.

The Citizens National Bank of Baltimore has occupied the offices provided for it in its large new office building at the corner of Light and Redwood streets, having moved from its old location at Hanover and Pratt streets on Monday of this week.

Trade Literature

Good Steel for Good Pipe.

The Youngstown Sheet & Tube Co., Youngstown, Ohio, has issued a little folder called "Facts About Pipe," which points out that although the manufacture of pipe is largely a standard process and all mills make it practically the same way, the manufacturer who makes his own steel has an advantage, for good steel is necessary to make good pipe and he can select from his steel only the best for pipe manufacture. Other salient facts are also pointed out convincingly. The folder is illustrated.

Castings.

A new catalogue, No. 25, has been issued by the H. W. Clark Company, Mattoon, Ill., with the title "Municipal and Miscellaneous Castings." It says that the articles listed therein are made of the same high quality iron found in all products of their plant and that the castings are designed properly, so that the thickness of all parts is in proportion to the load to be carried. The booklet contains pictures and descriptions of man-hole covers and lids, rings and lids, cistern tops, tile covers, lid boxes, coal chute doors and frames, curb and gutter inlets, traps, grates, etc., besides name plates and tablets, traffic guides, signs and other castings.

Fire Prevention Year Book.

One of the interesting and valuable features of Fire Prevention Week was the appearance of the Fire Prevention Year Book, issued annually by the Baltimore Underwriter and National Agent, Walter R. Hough and Frank W. Lawson, publishers. In the contents are found a number of important subjects, all most competently covered, such as protection of plants by fire brigades and general equipment, suggested laws and regulations, hose coupling standardization, protection of hospitals and schools, protecting oil districts in large cities, engineering standards for stairways, and so on. Each article is written by a specialist on its particular line, and the book is largely and very finely illustrated.

Value of Wood-Preserving.

Wood Preserving News, published by the American Wood-Preservers' Association, 1146 Otis Building, Chicago, contains in its September issue an article by Albert H. Tompkins, consulting engineer, Americus, Ga., on the use of creosoted boards for expansion joints in street pavements. Another article tells about eliminating two dangerous grade crossings in Mississippi by the erection of creosoted bridges, particulars being given by G. B. Denham, office engineer of the Mississippi State Highway Department. Both articles are illustrated. Other contents of the magazine are also accompanied by fine pictures showing the value of creosoted wood in other construction, including railroad track.

Catalogue of Gaskets

A new catalogue, No. 17, covering McKim gaskets, has just been issued by the McCord Radiator & Manufacturing Co., Detroit, Mich., who have manufactured these gaskets for twenty-five years. It covers gaskets of various metals for different uses, such as copper for general purposes as in steam, water, air and internal-combustion engines; aluminum for acids; steel for boiler hand-holes; tin, zinc and monel metal for particular chemical conditions. These gaskets are used in locomotives, compressors, steam engines, steam boilers, condenser units, steam turbines, steam pumps, ship engines, Diesel engines, cold storage, gasoline cracking stills, etc. The company will furnish a copy of the book to any engineer on request.

New Stoker Catalogue.

A new catalogue describing and fully illustrating the Type E underfeed stoker has been issued by the Combustion Engineering Corporation, New York city. The corporation has endeavored to make this publication as completely informative as possible and a review of its pages indicates that they have succeeded in doing so. Advantages claimed for this stoker are simplicity of design and operation, easy and rapid installation, operation from front of boiler, ample observation doors, air-cooled grate bars, active part of fire continuously self-cleaning, 100 per cent active fuel-burning surface, fuel economy, deep ash pits not required, will burn refuse fuels, etc. A list of more than fifty installations of this type of stoker at different places is given. A copy of the catalogue will be sent to anyone on request mailed to the corporation at the Combustion Engineering Building, Broad street, New York city.

All About the Busch-Sulzer Diesel Engines.

An artistically prepared and finely printed book of 96 pages has been issued by the Busch-Sulzer Bros. Diesel Engine Co., St. Louis, Mo., about the Busch-Sulzer Diesel engines, which are liberally illustrated and comprehensively described. There are pictures of installations at New Orleans and Algiers, La.; Donna, Gainesville, Humble and San Benito, Tex.; Trenton, Mo.; Duncan, Hominy and Newkirk, Okla., besides others. There are also over 30 more installations in the South, not to mention the very wide use of these engines in other parts of the country. On page 91 is a large illustration showing a United States Navy submarine propelled by one of these engines. There are, furthermore, reproductions of photographs of Dr. Rudolph Diesel, inventor of the Diesel engine, and of Adolphus Busch of St. Louis, who bought the exclusive rights to Dr. Diesel's patents in the United States. The inventor completed his first successful engine in 1897 and in 1898 the first engine of this type to be built in America was completed in St. Louis. Especial attention is given in the book to describing the Busch-Sulzer scavenging system, which is different and increases efficiency.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Impending Sale of Lands, Lumber Mills, etc.

A large auction sale of lands of the Waccamaw Lumber Company is to take place at Southport, N. C., on November 6, according to an official announcement elsewhere in this issue. There are about 200,000 acres of land to be disposed of besides sawmills, planing mills, dry kilns, buildings, fixtures, boilers, engines, machinery, loaders, skidders, locomotives, cars, etc., etc., the plant being at Bolton, N. C. Further particulars will be found in the advertisement.

Navy Yard Sales to Be Held.

At the Navy Yard, Portsmouth, N. H., on October 21 and at the Navy Yard, Boston, Mass., on October 22, according to official announcement elsewhere in this issue there will be sold at public auction large quantities of metals, radio and electrical equipment, hardware, paints, boat and ship fittings, machinery, engines, boilers, bolts, nuts, rivets, furniture and office equipment, besides small boats, such as cutters, whaleboats and motor-sailers. Catalogues and other information can be obtained from the supply officers at these navy yards, respectively, or from the central sales office at the Navy Yard, Washington, D. C.

Building Contracts Awarded.

The Austin Company, engineers and builders, Cleveland, Ohio, have recently been awarded valuable contracts by the Hauser-Stander Tank Company, Cincinnati, Ohio; Whitall-Tatum Company, Millville, N. J.; Hocking Glass Company, Lancaster, Ohio; Orphanage and Old People's Home of I. O. O. F. of Ohio, Springfield; Warner J. Steel, Bristol, Pa.; Riser Land Company, 111 Broadway, New York, for a golf clubhouse at Teterboro, N. J.; Hill & Griffith Company of Cincinnati for branch plant at Cicero, Ill.; Howard Stove Company, Beaver Falls, Pa., and The Willard Times, Willard, Ohio.

New Reduction Gear.

The Meacham Gear Corporation, 122-142 Dickerson street, Syracuse, N. Y., has recently developed a speed reducer for use in connection with air compressors, generators, refrigerating machinery, pumps, conveyors, crushers, etc. In this new device the load is transmitted noiselessly without shock or loss of power, it is claimed, by means of planetary gears to a slower rotating annular gear, on the inside of which ring are connected a number of rockers that engage with a spider keyed to the low-speed shaft. Spring plungers eliminate vibration and backlash. This reducer is totally enclosed, so that it is dust-proof and fool-proof and all parts run in oil.

Huge Order for Leather Belting.

Graton & Knight, tanners and leather-belt makers, Worcester, Mass., had to use the hides of 795 steers to make the leather belts for the new Long-Bell lumber mill at Longview, Wash. Reduced to units of one foot single-ply belting this order called for 94,436 feet, or nearly twenty miles of belting. The hides were obtained from packers and were tanned in the firm's tannery at Worcester, which is described as "the largest leather-belt tannery in the world, with a capacity of 300,000 hides yearly." On account of the hard service required of belting in lumber mills the hides used were selected from strong, healthy steers, killed during summer, when the hides are in the best condition.

Agency Established.

The B. F. Sturtevant Company of Hyde Park, Boston, Mass., manufacturers of electric motors, etc., have established an agency under the direction of Isaac Hardeman at 709-10 Independence Building, Charlotte, N. C.

Navy Surplus to Be Sold.

A sale of navy surplus material by public auction will take place at the U. S. Naval Ordnance Plant, South Charleston, W. Va., on October 28, according to an official announcement that appears elsewhere in this issue. The sale will include large quantities of nickel steel billets, ingots and blooms, steel rail, besides other steel, steel scrap, cast-iron scrap and other metal. Bolts, nuts and washers in large amounts are also offered, as well as buildings, furniture, leather belting, air, steam and water hose, besides many blankets. Further particulars will be found in the advertisement, as well as mention of another sale which is to take place soon afterwards.

Removal of General Offices.

The Georgia Casualty Company has removed its general offices from Macon to Atlanta, where they are located in the Brown Building. The home office will continue in Macon and the two offices will be connected by direct wire. The removal caused about 150 officers and employees to change their place of residence from one city to the other. Within a few years the company has grown from a small organization to one of the largest of its kind in the territory in which it operates. W. Emmett Small is president. Dr. J. C. McAfee, with Charles B. Lewis and Jesse B. Hart, has general supervision of the business. E. H. Strickland and Hubbel Andrews have charge of the underwriting department. W. B. Birch and Pope F. Brock take care of claims.

An Increasing Elevator Business.

The Westbrook Elevator Manufacturing Company, Danville, Va., which also has offices in New York city, Philadelphia, Pittsburgh, Washington, D. C.; Richmond, Va.; Charleston and Huntington, W. Va., and Atlanta, Ga., contemplates opening offices in other parts of the country. Business is most promising. Since the burning of the old plant in 1920, which was followed by the erection of a new one with modern and up-to-date machinery, all of the different types of elevators made at the plant have been redesigned and improved so that they meet all demands for perfect elevator service. There are 100 employees in the factory, with a full office force and drafting department. All the stock is owned by prominent men in Danville. The business started in 1871, when it was known as the J. B. Westbrook Foundry and Elevator Company, the output being then chiefly confined to freight elevators, although a few were built for passenger service. After the fire a new company was formed with the present name, the officers of which are C. G. Holland, president; A. B. Carrington and W. T. Dunford, vice-presidents; E. H. Marshall, secretary and treasurer, and T. E. Drape, sales manager. The Westbrook elevators are used in different places from New York to Mexico City, and at Danville, their home city, 90 out of 100 elevators in use are of this make, it is stated. In its freight and passenger elevators the company maintains a standard of the highest quality.

As all of these Bonds have been subscribed for, this advertisement appears only as a matter of record.

\$110,000,000

German External Loan 1924

Seven Per Cent. Gold Bonds

Dated October 15, 1924

Interest payable April 15 and October 15

Due October 15, 1949

NON-REDEEMABLE PRIOR TO MATURITY, EXCEPT FOR THE SINKING FUND

Sinking Fund, for this issue, \$4,620,000 a year, payable monthly, beginning November 15, 1924; sufficient to retire annually one-twentyfifth of the issue at 105%

Bonds to be retired through the Sinking Fund by purchase, if obtainable at or below 105% and accrued interest, or if not so obtainable, by redemption by lot at 105% and accrued interest, such accrued interest in either case to be paid otherwise than out of the Sinking Fund. The Bonds are to be redeemable for the Sinking Fund on October 15 of each year, commencing October 15, 1925.

Coupon Bonds in denominations of \$1000, \$500 and \$100

Principal and interest payable in New York City at the office of J. P. Morgan & Co. in United States gold coin of the present standard of weight and fineness, without deduction for any German taxes, present or future.

Doctor Luther, Finance Minister of Germany, has prepared, and the Reparation Commission and Owen D. Young, Agent-General for Reparation Payments, have approved, the following summary from his statement dated October 10, 1924, copies of which may be had on application to the undersigned:

THE LOAN These Bonds are part of an International Loan to be issued for the purpose of carrying into effect the Plan of the First Committee of Experts appointed by the Reparation Commission, for the double purpose of ensuring currency stability in Germany and of financing, especially, deliveries in kind during the preliminary period of economic rehabilitation. The Loan is to be issued in Great Britain, France, Italy, Switzerland, Holland, Belgium, Sweden, Germany and the United States of America, in bonds of various currencies, and for an amount estimated to be sufficient to yield in the aggregate a net sum equivalent, at current rates of exchange, to approximately 800,000,000 Gold Marks (approximately \$190,400,000).

SECURITY The service of interest and amortization of the Loan is:

- (1) A direct and unconditional obligation of the German Government chargeable on all the assets and revenues of that Government.
- (2) A specific first charge on all payments provided for under the Dawes Plan to or for the account of the Agent-General for Reparation Payments, such charge being prior to reparation and other Treaty payments, which in turn have a specific precedence over the existing German debt.
- (3) A first charge by way of collateral security on the "controlled revenues," i. e., the gross revenues of the German Government derived from the customs and from the taxes on tobacco, beer and sugar, the net revenue of the German Government from the spirits monopoly and such tax (if any) as may hereafter be similarly assigned by the German Government in accordance with the terms of the final protocol of the London Conference. The "controlled revenues" are estimated as amounting annually to not less than 1,000,000,000 Gold Marks (approximately \$240,000,000). The German Government may not create any further charge upon the controlled revenues ranking prior to or equally with the charge created in favor of the bonds of the Loan.

LONDON In the London Protocol, Annex IV, Article 3, the Governments of Belgium, Great Britain (with the Governments of Canada, Australia, New Zealand, South Africa and India), France, Greece, Italy, Japan, Portugal, Roumania and Jugo-Slavia, agreed as follows:

"In order to secure the service of the loan of 800 million gold marks contemplated by the Experts' Plan, and in order to facilitate the issue of that loan to the public, the signatory Governments hereby declare that, in case sanctions have to be imposed in consequence of a default by Germany they will safeguard any specific securities which may be pledged to the service of the loan.

"The signatory Governments further declare that they consider the service of the loan as entitled to absolute priority as regards any resources of Germany so far as such resources may have been subjected to a general charge in favor of the said loan, and also as regards any resources that may arise as a result of the imposition of sanctions."

At the London Conference, the Allied Governments adopted a resolution reading as follows:

"The Allied Governments, desiring that this loan should be successfully raised, and contemplating that the loan will be a first lien on the security pledged thereto, will invite the Central Banks in their respective countries to use their good offices to facilitate the placing of the loan."

In connection with this resolution, and at the request of the Governments of Great Britain, France and Belgium, J. P. Morgan & Co., and their associates, have undertaken the issue of the American portion of the Loan.

THE BONDS ARE OFFERED FOR SUBSCRIPTION, SUBJECT TO THE CONDITIONS STATED BELOW, AT 92% AND ACCRUED INTEREST TO YIELD OVER 7.70% TO MATURITY.

All subscriptions will be received subject to the issue and delivery to us of the Bonds as planned and to the approval by counsel of the relevant documents and proceedings.

Subscription books will be opened at the office of J. P. Morgan & Co., at 10 o'clock A. M., Tuesday, October 14, 1924. The right is reserved to reject any and all applications, and also, in any case, to award a smaller amount than applied for.

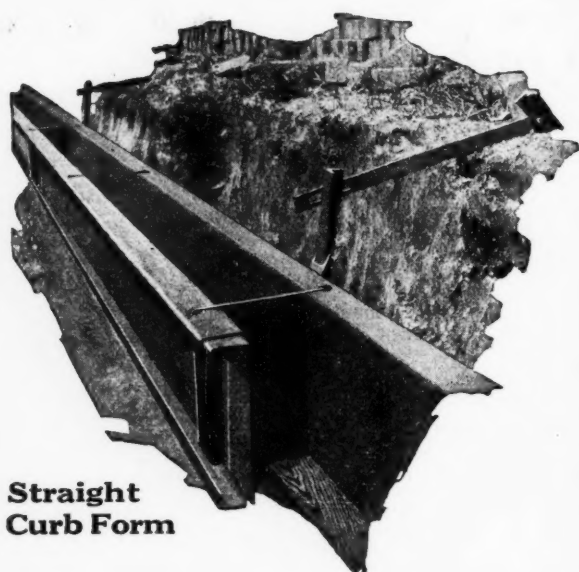
The amounts due on allotments will be payable at the office of J. P. Morgan & Co., in New York funds to their order, on or about October 30, 1924, as called for, against the delivery of Interim Receipts exchangeable for definitive Bonds when prepared and received.

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The National City Company
Bankers Trust Company, New York
Lee, Higginson & Co.
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Robert Garrett & Sons
Hambleton & Co., Inc.

New York, October 14, 1924.



**Straight
Curb Form**

Instant Adjustment to Line or Grade

Heltzel Steel Forms are made to meet every concrete paving requirement in straight or battered curb, curb and gutter, integral curb and base, for straight-away or curve.

Note the ruggedness of the above straight curb form, the heavy rigid side rails, the steel division plates with long wings which hook through slots in the rails and extend the full depth of the rails to prevent their spreading.

Note how the back rail is hung on clips which engage notches in the steel angle stakes, permitting adjustment to grade after the stakes are driven.



18 inch straight curb form made up of 6 inch and 12 inch rails. Templates removed without disturbing side rails.

Heltzel Rails can be bolted together if desired.

Note the sidewise adjustment afforded by the slot in the lateral brace.

Heltzel Steel Forms simply lead the field in absolute rigidity and simplicity of form setting.

And that's why millions of feet of Heltzel Forms are in use the country over.

Write today for Bulletin No. 24-C.

**The Heltzel Steel Form
and Iron Co., Warren, O.**

Also manufacturers of "Armor Plate" Steel Road Forms, Steel Sidewalk Forms, Finishing Machines, "Lightning" Loaders, Steel Mortar Boxes and Batch Boxes, Steel Tool Boxes, Permanent Traffic Line Building Equipment, etc.

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The Davison Chemical Company

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SULPHURIC ACID

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For all requirements of Ginners and Growers. Write
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NEW YORK OFFICE

61 Broadway

SELLING AGENTS

PARSONS & PETIT, 63 Beaver Street, New York

Miners and shippers crude sulphur in carloads or shiploads. Guaranteed ninety-nine and one-half per cent pure.

Mines located at Tidewater on the Gulf of Mexico.

Excellent facilities for prompt steamer loading.

Complete service by rail.



CULVERTS



**MANUFACTURED IN MEMPHIS, TENN.
AND SHIPPED TO PITTS BROTHERS,
CONTRACTORS, FOR TENNESSEE
STATE AID ROAD PROJECT.**

For Economy and Long Life Use TONCAN Culverts. Specify TONCAN METAL. It Is Commercially Pure Iron Alloyed with just the right amount of copper to obtain the greatest resistance to rust and corrosion.

These culverts have double reinforced ends, special TONCAN rivets, highest type of construction, full weight and full diameter. Immediate shipment from Memphis at right prices.

*Write or wire us collect for
Prices and more facts.*

TRI-STATE CULVERT MANUFACTURING CO.

Manufacturers

MEMPHIS

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TENNESSEE

(We also manufacture U-LOY Copper Bearing Metal Culverts)

Maybe This Bank Is Different From Others

Its policy is pleasing 16,000 customers who are its friends. Address us in regard to your financial requirements.

BALTIMORE COMMERCIAL BANK

GWYNN CROWTHER, President

Pratt Street and Market Place, Baltimore, Md.

Capital and Surplus \$1,000,000.00

Member Federal Reserve System

WE extend the facilities of our organization to those desiring information or reports on any of the companies with which we are identified.

Electric Bond and Share Company

(Incorporated in 1905)

Paid-up Capital and Surplus, \$60,000,000

71 Broadway

New York

Blue Book of Southern Progress

A rich and stimulating volume it is, valuable to the investor, of daily use to the business man, and exceedingly helpful to student and educator. In thoughtfully compiled records like this is much of the meat of history; and truly may it be said of this one that it is a book, not only to be tasted, but to be "chewed, swallowed and digested."

—Atlanta Journal.

Single Copies 50c

Manufacturers Record, Baltimore, Md.

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for Commissaries, Factories and Mines, in denominations of 1c to \$1.00. Metal checks for any purpose.

Write for prices.

Bennett Printing & Stamp Co.
25 South Pryor St. Atlanta, Ga.

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The First National Bank offers complete facilities for quick collections in this territory.

FIRST NATIONAL BANK

JOHN M. MILLER, JR.,
President

Resources over \$30,000,000
Capital and Surplus \$4,000,000

Remember the date !!

OCTOBER 20th to 25th

Southern Textile Exposition Greenville, S. C.

The most interesting display of Textile Machinery Supplies and Accessories ever held in the South. Special Railway Rates.

You are Cordially Invited to Attend

Continuous Satisfactory Service

IN establishing relations with a bank, the first consideration should be its management and dependability. The second consideration should be whether this management and dependability will continue. The third consideration should be whether its facilities are complete.

Our Company has a record of 140 years of capable and dependable management; moreover, it has a self-perpetuating board of trustees which insures continuous satisfactory service for our clients. We offer complete facilities in financing domestic and foreign business, and providing for personal banking and trust requirements.

We invite reliable concerns to form a permanent and worthwhile connection with us. If you desire, we shall arrange to have one of our officers call on you and discuss this matter.



Bank of New York & Trust Company

Capital, Surplus and Undivided Profits
over \$16,000,000

NEW YORK, N. Y.

REAL ESTATE MORTGAGE BONDS

We are interested in the purchase of first mortgage bond issues covering business property, hotels, apartment houses, etc., in amounts of \$50,000 and upwards. Entire issues city, county and district bonds purchased.

MARX AND CO.

Brown-Marx Bldg.

Birmingham, Alabama

We Buy Bonds

City, County, School and Road, from
Municipalities and Contractors

WRITE

THE PROVIDENT SAVINGS BANK & TRUST CO.

CINCINNATI

OHIO

WE BUY MUNICIPAL BONDS

We are interested in the purchase of Southern Municipals including road, school, county, drainage and levee bonds.

M. W. ELKINS & CO.

Southern Trust Bldg.

Little Rock, Ark.

MARYLAND TRUST COMPANY

BALTIMORE

Transacts a General Trust and Banking Business

Correspondence and interviews invited

CAPITAL, \$1,000,000

BLACK & COMPANY

(WILMER BLACK, C. P. A.)

CERTIFIED PUBLIC ACCOUNTANTS

OFFICES:

Suite 1208 GARRETT BUILDING
6 HAMILTON ROW

BALTIMORE, MD.
HAGERSTOWN, MD.

Municipal Bonds

Inquiries invited from municipalities and contractors. We buy city, county, district, school, road, lighting, water works and other municipal issues.

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J. Ernest Smith, President and General Counsel
Chas. Warner Smith, Vice-President
Harry W. Davis, Secretary and Treasurer.

Using Waste Wood to Make Kraft Paper.

Bogalusa, La.—Citizens of Bogalusa who have heretofore found it convenient to purchase waste wood from the Great Southern Lumber Co. for fuel purposes may be unable to procure this wood in the future. Most of the wood which the company formerly sold for a small consideration will be required hereafter for the manufacture of kraft paper.

Advances Plan for Reforestation Project.

Savannah, Ga.—A plan for promoting a reforestation project in Georgia has been put forward by C. H. Harmon, secretary of the Georgia Forestry Association, who has written the Savannah Board of Trade relative to the enterprise. Mr. Harmon suggests the organization of a company with a capital stock of \$50,000 and the privilege of increasing to \$100,000, and the purchase at first of from 3000 to 5000 acres for reforesting. It is also suggested that if a river is convenient, a fishing and hunting lodge could be built for members of the company while studying reforestation plans.

Tobacco Company to Increase Capital to \$1,850,000.

Winston-Salem, N. C.—Charter of the Williamson Tobacco Co. of this city has been amended, permitting a total authorized capital stock of \$5,000,000, and it is announced that the company will immediately increase its paid-in capital from \$1,000,000 to \$1,850,000. The company operates three factory buildings here, with a total floor space of 104,000 square feet, and maintains three leaf-tobacco storage buildings with a floor space of 56,000 square feet. Its products include chewing and smoking tobacco and snuff. F. H. Fries is president of the company.

Wytheville Textile Firm Buys Bonsack Mill.

Wytheville, Va.—The plant of the Bonsack Woolen Mills at Bonsack, Va., has been purchased by the Wytheville Woolen Mills, Inc., of this city and will be moved to Wytheville, doubling the capacity of the local plant, which operates 840 woolen spindles and 13 looms for the production of all-wool blankets, textile felts and wool-quilt fillers.



BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



PROPOSALS

Bids close October 30, 1924.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., October 7, 1924. SEALED PROPOSALS will be opened in this office at 3 P. M. October 30, 1924, for iron stairs, basement to first floor, enlarging basement windows, deepening of areas, etc., including incidental changes in the mechanical equipment of the United States Postoffice and Courthouse at Greenville, S. C. Drawings and specifications may be obtained from the Custodian at the building, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close October 31 1924.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., October 9, 1924. SEALED PROPOSALS will be opened in this office at 3 P. M. October 31, 1924, for remodeling in first story, including incidental changes in the mechanical equipment of the United States Custom House at Wilmington, Delaware. Drawings and specifications may be obtained from Custodian at the Custom House, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close October 29, 1924.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., September 30, 1924. SEALED PROPOSALS will be opened in this office at 3 P. M. October 29, 1924, for the construction of a one-and-one-half-story brick and tile non-fireproof Postoffice building approximately 54 by 57 feet in size at Douglas, Ga. Drawings and specifications may be obtained from the Custodian of the site at Douglas, Ga., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close October 30, 1924.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., September 30, 1924. SEALED PROPOSALS will be opened in this office at 3 P. M. October 30, 1924, for a remodeling and an enlarging (about 52 by 26 feet, one-story semi-fireproof) of the U. S. Postoffice and Court house at Abilene, Texas. Drawings and specifications may be obtained from the Custodian of the U. S. Postoffice and Courthouse, Abilene, Texas, or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

RATE: 35 cents per line per insertion
PUBLICATION DAY: Thursday.

FORMS CLOSE 4 P. M., Monday.

DAY LETTER: When too late to send copy by mail to reach us by 4 P. M., Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

\$410,000 5½% Bonds.

West Palm Beach, Fla.
The Board of Commissioners of Lake Worth Inlet District, Palm Beach County, Florida, will offer for sale at public auction on Monday October 6, 1924, at Room 1, Post Office Building, West Palm Beach, Florida, \$410,000, 5½% 30 year coupon bonds of said District.

The Board of Commissioners reserves the right to reject any and all bids.

Dated, West Palm Beach, Florida, this 10th day of September, 1924.

C. H. ELLIS
Secretary-Treasurer.

Bids close October 23, 1924.

Concrete Bridge

OFFICE OF THE STATE ROAD DEPARTMENT

Tallahassee, Fla., October 3, 1924.

Sealed bids will be received at this office until 12 o'clock noon on the 23d day of October for the construction of the following bridge:

Project No. 593, Road No. 5, Manatee River Bridge between Bradentown and Palmetto, the same being a Reinforced Concrete structure approximately 3600 feet long, composed of 30-foot deck girders on concrete piers; and one double-leaf bascule span 75-foot clear channel. The width of the roadway to be 24 feet, and in addition there will be 4½-foot sidewalks on each side for the entire length.

All work is to be done in accordance with plans and specifications of the State Road Department.

Certified check or bidder's bond, made payable to the Chairman of the State Road Department, in the sum of five (5%) per cent of the amount bid must accompany each proposal.

Plans may be examined at this office or at the office of the Division Engineer, or may be obtained upon application to this office for the sum of \$5.00 each, which amount will be refunded if plans are returned in good condition by a bona fide bidder within ten days after bids have been received.

The right is reserved to reject any or all bids.

H. B. PHILIPS, Chairman.
J. L. CRESAP, State Highway Engineer.

Bids close October 21, 1924.

Highway Construction

DEPARTMENT OF PUBLIC WORKS

STATE OF MARYLAND

STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

Sealed proposals for building one section of State Highway as follows:

Allegany County—Cont. A-26. One section of State Highway along the Oldtown road from end of Cont. A-21 toward Patterson Depot for a distance of 1.65 miles. (Concrete.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 21st day of October, 1924, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of five hundred (\$500) dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 6th day of October, 1924.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

Bids close October 25, 1924.

Road Construction

Arcadia, Fla.

Notice is hereby given that the Board of County Commissioners of DeSoto County, Florida, will at their office at the Court House at Arcadia, Florida, until ten o'clock in the forenoon on Saturday, the 25th day of October, 1924, receive sealed bids for furnishing all necessary materials, tools, teams, equipment and labor for and the construction and completion of certain county roads in DeSoto County, Florida, the total length of which is approximately 118 miles. The work shall include grading and the construction of the paved surface and all work incidental thereto, and shall consist of the following approximate quantities:

Clearing and grubbing, 36 acres.
Grading, 298,000 cubic yards.
6 inch Florida Lime Rock or Bartow Clay Base, 338,400 sq. yds.
5 inch Florida Lime Rock or Bartow Clay Base, 102,000 sq. yds.
4 inch Florida Lime Rock or Bartow Clay Base, 202,600 sq. yds.
Asphaltic or Tarvia Surface Treatment with slag or rock cover, 671,000 sq. yds.
Reinforced Concrete Pavement, 9000 sq. yds.
Reinforced Concrete for Drainage Structures, 2000 cu. yds.
Reinforcing Steel, 101,000 lbs.
Reinforced Concrete Pipe or Double Strength Vitrifed Clay Pipe for Culverts, in place 12 inch, 100 lin. ft.
18-inch, 500 lin. ft.
24-inch 750 lin. ft.
36-inch, 300 lin. ft.
Long Leaf Yellow Pine (85 per cent Heart), for Bridges, 97,000 F. B. M.
Timber Piling for Foundations.
Reinforced Concrete or Timber Piling for Trestles, 6000 lin. ft.
Pecky Cypress Curb (2 inch by 8 inch), 845,000 lin. ft.

All work shall be done in accordance with the plans and specifications on file in the office of the Board of County Commissioners.

Plans and specifications may be secured from the Clerk of the Board upon payment of \$20.00 to cover the cost of blue printing; \$10.00 thereof will be returned to bidders upon return of plans and specifications in good condition accompanied with a bona fide bid.

All proposals must be accompanied with a certified check drawn to the order of C. E. McRAE, Chairman, in the sum of \$10,000 as a guarantee that the successful bidder will enter into an appropriate and satisfactory contract and bond. Said bond shall be in a sum equal to the contract price given in a surety company or surety companies satisfactory to the Board and authorized to do business in Florida; such bond to be furnished through a DeSoto County agent who has maintained a regularly licensed resident agency in the County for a period of at least six months just prior to and at the time of the execution thereof.

The Board reserves the right to reject any and all bids.

This notice is given by order of the Board of County Commissioners of DeSoto County, Florida, this 6th day of October, 1924.

C. E. McRAE.

Chairman Board County Commissioners, DeSoto County, Florida.

Attest:

A. L. DURRANCE, Clerk.
By C. A. CROWS, D. C.

Bids close November 6, 1924.

Paving

Sealed proposals on blank forms furnished by the Town, addressed to the "Mayor and Council, Crescent City, Florida," will be received until 2 P. M. November 6, 1924, at Crescent City, Florida, for furnishing all materials, equipment and labor necessary for doing the following work:

Approximately 47,000 sq. yds. of street paving, together with all necessary drainage, curb and gutter and other work incidental thereto, as set out in the plans and specifications.

Each bid on Section A or Section B of the proposal shall be accompanied by a certified check or bidders bond in the sum of not less than One Thousand (\$1000.00) Dollars and each bid Section C, or Sections A, B, and C, shall be accompanied by a certified check or bidders bond in the sum of not less than Five Thousand (\$5000.00) Dollars. All certified checks or bidders

bonds shall be made payable to the Town Clerk of Crescent City, Florida.

Plans and specifications can be seen at the office of the Town Clerk in Crescent City, Florida, or at the offices of the Engineers in Leesburg, Florida, or in Elberton, Georgia.

Full sets of plans and specifications will be furnished by the Engineers upon the payment of fifteen (\$15.00) Dollars, half of which will be refunded upon the return of the plans and specifications in good condition within ten days after the date for receiving bids. Specifications may be obtained from the Engineers upon the payment of Two (\$2.00) Dollars.

The right is reserved to reject any or all bids.

TOWN OF CRESCENT CITY, FLA.
R. C. MIDDLETON, Mayor.
C. M. AUSTIN, Town Clerk.
H. S. JAUDON ENGINEERING COMPANY,
ENGINEERS

Leesburg, Fla. Elberton, Ga.
NOTE:

The Florida Road Department will also, at the above named time and place, receive bids on approximately two and one-half miles of road to be constructed through the Town of Crescent City.

Bids close October 30, 1924.

Paving

Eustis, Fla.

Sealed proposals on blank forms furnished by the TOWN and addressed to the "MAYOR AND COUNCIL, EUSTIS, FLORIDA" will be received until 2 P. M. OCTOBER 30, 1924, at EUSTIS, FLORIDA, for furnishing all material, equipment and labor for doing the following work:

Approximately 50,000 square yards of Bituminous Street Paving and approximately 1200 square yards of Vitrifed Brick Street Paving, together with all necessary drainage, curb and gutter and other work incidental thereto.

Each bid must be accompanied by a certified check or satisfactory bidder's bond, made payable to the Town Clerk, for not less than FIVE THOUSAND (\$5000) DOLLARS.

Plans and specifications can be seen at the office of the TOWN CLERK in EUSTIS or at the office of the Engineers in Elberton, Ga.

Full set of Plans and Specifications may be obtained from the Engineers upon payment of Fifteen (\$15) Dollars, half of which will be refunded upon the return of the plans in good condition within ten days after the award of the contract. Specifications will be furnished by the town upon payment of Two Dollars.

The right is reserved to reject any or all bids.

HENRY W. BISHOP, Mayor.
GEORGE J. DYKES, Town Clerk.
H. S. JAUDON ENGINEERING CO.,
Engineers,
Elberton Georgia.

Bids close November 14, 1924.

Sewer Construction

Letting No. 11

Louisville, Ky.

Sealed proposals will be received by the Commissioners of Sewerage of Louisville, at its office, 417 W. Main St., Louisville, Ky., until 12 o'clock noon, November 14, 1924, for the construction of the CENTRAL RELIEF DRAIN in Eighth St., from Ohio River to Broadway.

Bids are invited upon alternate types of construction, i.e., Open Trench or Timber Tunnel (Type B) and Shield driven Tunnel (Type C).

Statement of approximate quantities embraced in contract:

4,243 lin. ft. of Trench or Tunnel.
225 lin. ft. of Tunnel.
6,000 cu. yds. of Class A. Concrete.
433,000 lbs. of reinforcing steel.
6 tons of steel sheet piling.
5,000 lin. ft. timber piles.
10,500 ft. B.M. timber to be left in place excluding timber in tunnel and tunnel shafts.
410 sq. yds. of street re-paving.

Above quantities will vary according to type of drain constructed.

The amount of this work is between \$500,000.00 and \$600,000.00.

Drawings, Information for Bidders, Form of Proposal, Contract and Specifications may be had at office of Commission upon deposit of twenty dollars (\$20.00) to secure return of same in good condition within thirty (30) days after date set for the opening of bids.

Each proposal must be inclosed in a

sealed envelope addressed to "Commissioners of Sewerage of Louisville, 417 W. Main St., Louisville, Ky." and accompanied by a certified check drawn upon a state or national bank or trust company established in the City of Louisville or in the City of New York, for an amount not less than ten (10) per cent of the total amount of accompanying proposal, payable to Commissioners of Sewerage of Louisville, or Bidder's Bond executed as set forth in information for Bidders.

The right to accept any bid or reject any and all bids is reserved.

Commissioner of Sewerage of Louisville.
By MATT H. CRAWFORD, Chairman.

P. H. HOGE, Jr., Sec. & Treas.
J. B. F. BREED, Chief Engineer.

Bids close October 30, 1924.

Street Paving and Storm Sewers

Mobile, Ala.

Sealed proposals will be received by the Board of Commissioners of the City of Mobile, Alabama, for Street Pavement and Storm Sewers as follows: Bids will be received until noon Thursday, October 30, 1924:

One course concrete paving, 19,924 sq. yds.
Concrete curbing, 10,224 lin. ft.
Asphaltic concrete paving, 3700 sq. yds.
Concrete curbing, 2600 lin. ft.
Sheet asphalt or Warrentite bitulithic paving, 8000 sq. yds.

Concrete curbing, 4800 lin. ft.

STORM SEWERS.

6-inch pipe.....	810 ft.
10-inch.....	1438 ft.
12-inch.....	4502 ft.
15-inch.....	2586 ft.
18-inch.....	865 ft.
20-inch.....	50 ft.
24-inch.....	350 ft.
Manholes.....	32
Inlets.....	99
Special Basins.....	25

The right is reserved to reject any or all bids. Plans and specifications can be seen in the office of the City Engineer.

GEO. E. CRAWFORD,
Commissioner of Streets.
WRIGHT SMITH, City Engineer.

Bids close October 20, 1924.

Electric Light, Water Works and Ice System

Cheneyville, La.

Sealed proposals will be received by the Mayor and Board of Aldermen of the Village of Cheneyville, Louisiana, at their regular meeting place until 10 o'clock A. M. of the 20th day of October, 1924, for the following:

Two Crude-oil Engines directly connected to alternators, and clutch connected to 500-gallon-per-minute Underwriters' Pump; an 8-inch Tubular Well; 50,000-gallon Concrete Reservoir; Elevated Tank and Tower; Cast-Iron Pipe Mains, Cast-Iron Specials and Valves; Hydrants, Galvanized Pipe and Fittings; House-service Connections; Water Meters; Poles and Pole-Line Equipment; Electric House Meters; complete 5-TON ICE-MAKING PLANT; Concrete Foundations, Building, etc., etc.

Proposals must be marked "Proposals for Light and Water Works Improvements." The above should appear in RED LETTERS.

All bids must be on blank forms provided in the specifications.

Each bid must be accompanied by a certified cashier's check (bidder's bond will not be accepted) in amount of 7% of the amount of the bid. No amount less than \$75 will be received; this amount must be deposited as evidence of good faith.

Plans and specifications will be on file at the office of the Village Clerk at Cheneyville, Louisiana, and at the office of the Engineer at Glenmora, Louisiana.

Copies of the specifications, plans and form of proposals, etc., may be obtained from the Engineer, F. P. JOSEPH, Glenmora, La., by remitting \$5.00, which amount shall apply to cover the cost of same and is not refundable.

The right is reserved to reject any and all bids, waive any and all formalities and technicalities or to accept any bid or bids which, in the opinion of the Board of Aldermen, will best serve the interests of the municipality.

ROBERT DESEILLE, Mayor.
J. B. EVERITT, Clerk.
F. P. JOSEPH, Consulting Engineer,
Glenmora, La.

Bids close, November 10, 1924.

Water Works and Sanitary Sewer System

Sebring, Fla.

Sealed proposals for furnishing material and constructing a Water Works System and a Sanitary Sewer System for the Town of Sebring, Florida, will be received by the Mayor and Council at the City Clerk's office until 7.30 P. M. November 10, 1924.

The Water Works System will consist of approximately 8 miles of 6", 8" and 10" cast-iron pipe, with specials, valves and hydrants, a 200,000-gallon concrete clear-water collecting well, pump station and equipment, and a 100,000-gallon elevated tank.

The Sewer System will consist of approximately 2 miles of 8", 10", 12" and 15" vitrified pipe, with manholes, flush tanks and appurtenances, and a settling tank and tile under-drain system.

Each proposal must be accompanied by a certified check, payable to the Town of Sebring, Florida, to an amount equal to five (5) per cent of the bid as a guarantee that the contract will be entered into if awarded. A bond in the full amount of the contract price will be required. Payments will be made on monthly estimates.

Plans and specifications are on file in the office of the City Clerk at Sebring, Florida, and with Paul H. Norcross, Consulting Engineer, 1404 Candler Building, Atlanta, Ga.

Bidders may obtain copies from the Engineer by enclosing certified check for twenty-five (\$25) dollars, payable to the Town of Sebring. If blueprints are desired they may be had at the cost of printing. If the plans, specifications and blueprints are returned within thirty days after opening bids, the

check for twenty-five dollars will be returned.

A. E. LAWRENCE, Mayor.
W. B. ZACHARY, City Clerk.
PAUL H. NORCROSS, Consulting Engineer,
1404 Candler Building, Atlanta, Ga.

Bids close November 5, 1924.

Water Works System

The Commissioners of Public Works of the Town of Ehrhardt, S. C., will receive sealed bids until 2 P. M., November 5, 1924, in the office of the Clerk and Treasurer, for a complete water works system consisting of the following:

Water Distribution System.
10-inch Well (Approximately 600 ft. deep).
75,000 Gallon Tank and Tower.
Iron Removal Filtration Plant.
Building.
Pumping Machinery.

Bids will be received from Manufacturers for the following equipment: Pipe, Valves, Hydrants, Filtration Plant Equipment, Pumps, Well, Tank and Tower.

Bids will be received from General Contractors for installation of this equipment. A certified check for \$3000.00 must accompany each bid from general contractor. A bid bond will not be accepted. The Commissioners reserve the right to reject any or all bids.

Plans and specifications may be obtained from the Engineers upon deposit of \$10.00, which will be returned if a bona fide bid is submitted and plans and specifications are returned within ten days from date of receiving bids.

TOWN OF EHRHARDT, S. C.
By J. L. COPELAND, Chairman.
Board of Commissioners of Public Works.

RYAN ENGINEERING COMPANY, ENGINEERS.
Arcade Building, Columbia, S. C.

Bids close November 6, 1924.

Church

Chapel Hill, N. C.

Bids will be received at noon on November 6, 1924, at the office of Atwood & Nash, Inc., Architects and Engineers, Chapel Hill, N. C., for the Methodist Episcopal Church South, Chapel Hill.

Plans and specifications can be secured from the architects upon deposit of \$15 for each set. Certified check or bid bond in the amount of 5% of the bid must accompany each bid to guarantee the execution of the contract. The right is reserved to reject any or all bids.

Bids close November 15, 1924.

High School Building

Paragould, Ark.

Bids are requested from reputable and responsible general contractors for the Junior and Senior High School Building to be erected in Paragould, Ark., said proposals to be filed with the Secretary of the Board at 10 A. M., Nov. 15, 1924.

A deposit of \$7500.00 will be required with each proposal to guarantee good faith and the successful contractor will be required to file a bond in accordance with the laws of the State of Arkansas for twice the amount of the contract.

Bidders may obtain copies of the drawings and specifications by application to the architects of the School Board, Messrs. Mann & Stearns, Little Rock, Ark., and each bidder will be supplied with one complete set of plans and specifications on deposit of the sum of \$50.00 to guarantee the safe and prompt return of the plans and specifications at the time requested.

The Board reserves the right to reject any or all bids.
PARAGOULD SPECIAL SCHOOL DISTRICT.

R. L. CARPENTER, Secretary.

**CLASSIFIED OPPORTUNITIES****MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES****NORTHWEST GEORGIA.**

The scene of the next great industrial development in Georgia. Electric power available. Large power plants under construction.

For industrial sites; pine and hardwood timber; brick shales; clays; large or small water powers; farms in a prosperous section. Write, with detail, as to your requirements.

C. E. VANCE, Calhoun, Georgia.

MINERAL AND TIMBER PROPERTIES WANTED WANTED.

TO HEAR from parties having mineral properties for sale.
UNITED MINERALS CO., Roanoke, Va.

OGRE DEPOSIT AND SHALE

TO WHOM IT MAY CONCERN: I have ochre deposit and also shale; will sell ochre and shale outright or the tract of land, which consists of 131 acres. The ochre has been analyzed and is good. Hugh Pledger, Glencoe, Ala.

TIMBER WANTED

WANTED—100,000,000 feet or more of good pine timber. Give full particulars in first letter.

P. O. Box, 554, Savannah, Ga.

TIMBER AND TIMBER LAND

FOR SALE—5100 acres of fine hardwood timber and river-bottom land, estimated to cut twenty-two million feet of timber. POLK-BOURNE REAL ESTATE COMPANY, 320 Boyle Bldg., Little Rock, Arkansas.

22,000 ACRES VIRGIN TIMBER 16,000 acres strictly L. L. pine, very fine, also 6000 acres Mahogany and other fine hardwood. Price \$3.50 per acre, fee, terms.
A. J. NOBLETT, Atmore, Ala.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. *When the advertisement contains a number of long words proper allowance should be made.* Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 25c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES**TIMBER AND TIMBER LAND**

FOR SALE—1000 acres original timber—chestnut, chestnut oak, hemlock and other woods. Situated fourteen miles South Maroni, Va. Near railroad. Will sell timber alone or land and timber.

JOHN R. DICKKEY, JR., Bristol, Va.

FARM, FRUIT AND TRUCK LANDS**FLORIDA**

WHOLESALE FLORIDA LANDS—Colonization, subdivision and agricultural tracts in the heart of Florida's greatest development. PIERCE & STEVENSON.
307 First National Bank Building, Miami, Fla.

FLORIDA'S all-year climate, for work or play, offers greatest opportunity of any state for health or wealth. Ask for information. Hardin Land Co., Box 63, Lakeland, Florida.

FARM, FRUIT AND TRUCK LANDS**FLORIDA**

EVERGLADE LAND, rich, deep muck soil, five-acre truck farm up to 40,000-acre colonization tracts, million-and-a-half-dollar sugar mill near which refined sugar this year. Land adapted to truck, fruit, sugar cane or stock farming.

STEWART, HOLLOPETER & McCUNE,
Realtors, Miami, Florida.

WE OWN 12,000 ACRES of Everglades Muck land. Soil over 10 feet deep. Adjoining lands now under cultivation. Sixteen miles of rock surfaced roads and navigable canals already constructed. This tract fronts on the Cross State Highway. For sale at an attractive price.

CONSOLIDATED REALTY COMPANY,
223 Clematis Ave., West Palm Beach, Fla.

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union. and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet, "Largest Orange Tree in the World," and list. Tampa-West Coast Realty Co. (Inc.), Opp. Postoffice, "Since before the war," Tampa, Fla.

TENNESSEE

FOR SALE—Tract 30,000 acres Tennessee land. Excellent colony proposition. Some good timber. Near large Swiss settlement. Will trade in part. Geo. Whitson, McFerren Road, Nashville, Tenn.

VIRGINIA

1000 ACRES GROWING TIMBER, nearly ready for saw; 500 acres rich land, grain and grass; Colonial brick residence, 12 other buildings. Will keep 2000 sheep. Owner is old and determined to retire. Little fortune here for a younger man; \$18 acre; easiest terms. Write for full description. LaFayette Mann, 803 East Main street, Richmond, Va.

PLANTATION

1400-ACRE PLANTATION, nicely improved and located. Money maker. Fully equipped and stocked. Good reason for sacrifice price. No healthier section or better water. Oakhurst Plantation, Hamilton, Ga.

BUSINESS OPPORTUNITIES

WANT TO GET IN TOUCH with several mills making silk and artificial silk hosiery. Address No. 6381, care of Manufacturers Record, Baltimore, Md.

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW,
Harlow Building, Alexandria, Va. Colorado Building, Washington, D. C.

WANTED—Farmers who want to locate where good churches, schools, climate, roads, hunting and fishing are of the very best. Rich, undeveloped land, low in price; good markets where buyers pay cash for every item raised. Columbus and Brunswick Counties is the place. Address Farmer, P. O. Box 45, Vineland, N. C.

FOR SALE—Light Hardware and Sporting Goods store located in the heart of one of the largest Southern Cities. Selling account of domestic troubles. BOX 12 Richmond, Va.

FOR SALE. Two fully equipped sawmill outfits in good repair, now set up ready for operation with a years contract at good prices. Sale includes teams, wagons, carts, tractors, truck, tools, etc., with necessary shacks for labor to commence operation in thirty days. Address at once, P. R. SIMS, Rayle, Ga.

FOR SALE—Ideal Electric Hammer Proposition. All patent rights in the Paulero Electric Hammer, Converter, Generator and Calking Tools, together with machine equipment used for developing above devices, owned by The Electric Tool Manufacturing Company of Petersburg, Va. Can be purchased on most reasonable terms, either all cash or cash and royalties. Two types and three sizes of electric hammers now perfected and ready for market. Useful in hundreds of operations in stone, steel, building, ship scaling and other industries. Object for sale inability to procure adequate working capital. This can be made a big money maker, as field for hammers is immense. For full particulars, David A. Lyon, Jr., Harry L. Snead, Trustees, Box 265, Petersburg, Va.

FINANCIAL

WANTED—TWENTY THOUSAND DOLLARS, ten years; six per cent interest. Interest to be paid semi-annually, with option to repay principal after three years. Secured by first mortgage on one hundred acres of land on Indian River, in Brevard County, Florida. Money being used in development of lands given as security. C. R. Jenkins, Sharps, Fla.

FACTORY SITES

FOR SALE—Two Flour Mill or other Factory Sites located in Staunton, Va. Connections with two R. R.'s. Water and Electric power VERY LOW PRICE for quick sale. For particulars apply at once to A. Lee Knowles, Real Estate, Staunton, Va.

JACKSONVILLE FLORIDA.
For Sale or Lease, plot 250 by 1200 feet, centrally located on deep water and railroad yards. Exceptional location for factory, warehouse or terminals. Myron L. Howard, 215 Mitchell Bldg.

ELECTRIC POWER PLANT WANTED

ADVERTISER WOULD BE INTERESTED in purchasing Electric Light and Power Plant in growing town of five to twenty thousand population. None but properties of merit considered. Address No. 6384, care Manufacturer's Record.

INDUSTRIES WANTED

HYDRO-ELECTRIC PLANT.
Offers cheap power in community with cheap, plentiful labor, railroad, timber, iron, copper, feldspar. E. W. THOMSON, Shulls Mills, N. C.

INDUSTRIES WANTED

REST AND EAT is the name for the new up-to-date Hotel which will be built at the new town of Schriever, La.

Who will, without delay, take advantage of the greatest Hotel opportunity in all the South?

One hundred and fifty thousand well-to-do people, all employed and no competent hotel. More than 100 miles of Palace Motor buses converge here and no hotel. The Southern Pacific Railroad has just purchased three tracts of land here, and no hotel to take care of their growing business.

Gas flowing out of the ground here has been constantly burning for years. And it is 90% sure that more than two of the Big Companies will drill for oil. Without a hotel what can we do with the business? Association of Industries—Schriever, La.

FREE FACTORY SITES.

Locate your plant in the Ohio Valley. The New Martinsville Land Company offers free factory sites.

Splendid train service, advantage of rail and river shipments, coal and natural gas for fuel. Property located at Clarington Station and right along the West Penn High Tension Electric Line. The State Highway runs through it. Labor is plentiful and living conditions ideal.

The Ohio Valley is the land of opportunity at this time. The Ohio River is rapidly approaching the place where it will be one of the greatest inland waterways in the world. Millions of dollars are now being expended on the river and roads. Address

C. M. HORN BROOK, Secretary
The New Martinsville Land Company,
New Martinsville, West Virginia.

INDUSTRIAL PLANTS

If interested in buying
A SOUTHERN COTTON MILL
Write to

F. C. ABBOTT & COMPANY,
Charlotte, N. C.
26 years' experience in Southern Mill Stocks.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. Watson E. Coleman, Patent Lawyer, 644 G St. N. W., Washington, D. C.

INVENTORS—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for Patent. Book, "How to Obtain a Patent," sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. Chandlee & Chandlee, 412 Seventh St. N. W., Washington, D. C.

PATENTS—TRADEMARKS—COPYRIGHTS
Write for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing inventions. Send model or sketch and description of your invention for our free Examination and Instructions. Highest references. Reasonable terms. VICTOR J. EVANS & CO., 712 Ninth, Washington, D. C.

AGENCIES WANTED

AN AMERICAN, residing in Paris, desires to represent as business agent or salesman in Europe some American manufacturing concerns. Address ALBERT SCHMID, 4 rue Thiers, Paris, France.

SALES ORGANIZATION—Building Supplies. Practical and experienced in specializing and promotion work. Enjoy large personal acquaintanceship with architects, engineers, contractors, dealers and others interested in building supplies. Twenty years' successful career. Territory North Carolina. Thoroughly equipped to handle a few additional building specialties on a commission basis. Address Box 214, Raleigh, N. C.

SITUATIONS WANTED

FIRST-CLASS general all-round office man, aged 31 years, thoroughly experienced stenographer and typist, bookkeeper and accountant; also freight traffic experience, desires secretarial or accounting position; A-1 references. Address No. 6380, care of Manufacturers Record, Baltimore, Md.

POSITION WANTED as resident manager or otherwise by a successful retired business man with love for hard work and the accomplishment of things worth while. Will undertake any promising outdoor position in the South on salary or commission basis. Highly successful as developer of real estate, manager or executive and is an indefatigable worker for the success of anything he undertakes. Highest credentials. Address No. 6382, care of Manufacturers Record.

MEN WANTED

WANTED—Manufacturer wants high-grade representatives calling on architects and contractors to handle newly developed Kalamain door. Address No. 6378, care Manufacturers Record, Baltimore, Md.

WANTED—A bright, energetic man to act as Southern sales representative of a well-known grinding wheel manufacturer. A resident of the South and one acquainted with mill-supply houses preferred. State experience. Address No. 6379, care of Manufacturers Record, Baltimore, Md.

SALESMEN WANTED—To sell a complete line of "Super Quality" good roads equipment, metal grain bins, corn cribs, garages, etc. Some good territory still open. Best district agency proposition ever offered. To real salesmen only. You to furnish your own car. If you cannot sell a high-grade product for what it is worth, don't bother us by answering this ad. Send references, experience and permanent territory preferred. Address No. 6373, care Manufacturers Record, Baltimore, Md.

SALARIED POSITIONS \$2500 to \$25,000 upward: executive, technical, administrative, engineering, manufacturing, professional, managing, financial, etc., all lines. If you are qualified and receptive to tentative offers for a new connection you are invited to communicate in strict confidence with the undersigned, who will conduct preliminary negotiations for such positions. A method is provided through which you may receive overtures in confidence, without jeopardizing present connections, and in a manner conforming strictly to professional ethics. Send name and address only; preliminary particulars will be sent without obligating or compromising you in any way. R. W. Bixby, Inc., 403 Lockwood Building, Buffalo, N. Y.

PAVING WORK WANTED

CONTRACTOR WITH PAVING OUTFIT available for some new work. Have 21 E paving mixer, rollers, road forms, pumps and pipe lines, trucks, dump wagons, turntable, gravel bins, etc. Everything new. Will take sub-contract or original contract, any size paving or grading jobs anywhere. W. R. HATCH, Goshen, Indiana.

MACHINERY AND SUPPLIES

LONG & ALLSTATTER Class A Punch and Shear, motor-driven, complete with 3-phase 60-cycle 220-volt 7½-H.P. motor; capacity shear 2¼" rounds, 8"x1¼" flats, punch 2" hole through 1¼" plate; condition good as new. Address B. F. Lively, 5155 Parkway, Fairfield, Birmingham, Ala.

MACHINERY AND SUPPLIES WANTED

WANTED TO BUY
2-12"x14" Side Crank Engines.
2-14"x16" Side Crank Engines.
2-16"x18" Side Crank Engines.
6-72"x18" High Pressure Horizontal Boilers. Must be in good condition. Address No. 6383 care of Manufacturers Record.

NOTICE OF SALE

of

Timber Lands and Lumber Manufacturing Plant

The undersigned, as Commissioner, under a Decree of the Superior Court of Brunswick County, State of North Carolina, in a cause entitled:

Security Trust Company, as Trustee, under a Deed of Trust by Waccamaw Lumber Company, dated November 1, 1912,

vs.

Waccamaw Lumber Company,

will on Thursday, November 6, 1924, at 1.00 o'clock P. M., at the door of the Brunswick County Court House in Southport, N. C., offer for sale at public auction for cash to the highest bidder, subject to confirmation by the Court, all that tract or tracts of land situated in the Counties of Brunswick and Columbus, State of North Carolina and which are particularly described in a certain Deed of Trust from Waccamaw Lumber Company to Security Trust Company, Trustee, said Deed of Trust being recorded in the County of Brunswick in Book 18, pages 550 et seq., and in the County of Columbus, in Book P-1, pages 1 et seq., including as provided in said Deed of Trust, any and all lands in Brunswick and Columbus Counties to which Waccamaw Lumber Company has since the execution of said Deed of Trust acquired title, and excluding any and all such portions of said lands as have subsequent to the execution of said Deed of Trust been released from the lien thereof by Deeds of Release by Security Trust Company, Trustee, as said Deeds of Release appear of record in the Counties of Brunswick and Columbus. The lands to be sold are estimated to contain about two hundred thousand (200,000) acres, but acreage is not guaranteed. With these lands will be sold all saw mills, planing mills, dry kilns, buildings, fixtures, boilers, engines, machinery, booms, tramways, conveyors, hoisting apparatus, pipes, cables, railroads, locomotives, cars, loaders, skidders, tools, appliances and all other equipment now in use by Waccamaw Lumber Company in cutting and handling logs and timber and in manufacturing lumber at said Company's plant located on the lands above referred to, said plant being located at Bolton, N. C., on Atlantic Coast Line Railroad about 29 miles south or west from Wilmington, N. C.

The successful bidder will be required to deposit with the undersigned at the time of sale in cash or exchange satisfactory to the undersigned, a sum equal to 5 per cent of his bid to insure compliance with bid if sale is confirmed; deposit to be returned if sale is not confirmed.

*Further information upon
application to the undersigned.*

ROBERT RUARK, Commissioner
Address: Murchison National Bank Building
Wilmington, N. C.

Dated and posted September 29, 1924.

OPPORTUNITIES

Industrial and Agricultural

The A. & W. P. — W. Ry. of Alabama and Georgia Railroads traverse a territory rich in material and potential resources. Attractive industrial sites. For information apply:

Commercial & Agricultural Dev. Dept.—Above Lines Atlanta, Georgia

MANUFACTURERS

of staple products; if you wish to secure the services of a capable, efficient, reliable, progressive and well qualified sales representative in New York, address

A-341, Care of Manufacturers Record, Baltimore, Md.

Advertiser has well located business office with all facilities for conducting successful representation for out-of-town firms or corporations.

WE CAN ASSIST YOU

in finding the proper location for your Company and employees in Georgia. Our free information facilities and efficient service are available for the asking. Use us.

Specialists in all phases of real estate, renting, investments and construction.

L. W. ROGERS REALTY & TRUST CO.

Ben R. Padgett, Gen. Mgr.

Capital \$350,000

ATLANTA, GA.

FLORIDA WANTS YOUR INDUSTRY

If you are contemplating the location of or investment in any industry in Florida or desire to make investment in lands, developments or any business in Florida. Have your investigations and certified reports made by registered Florida engineers who are residents and familiar with all local conditions. Each dollar invested in a report may save you hundreds.

Associate Engineers in Every County

Florida Associated Engineers

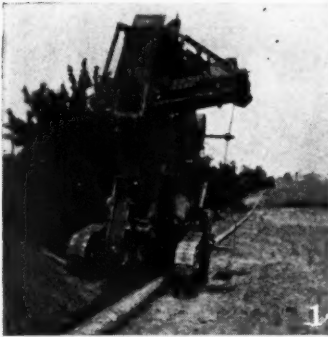
3us Terminal Building, 25-27 W. Central Ave., ORLANDO, FLA.

The "CLASSIFIED OPPORTUNITIES"

Department of the

MANUFACTURERS RECORD

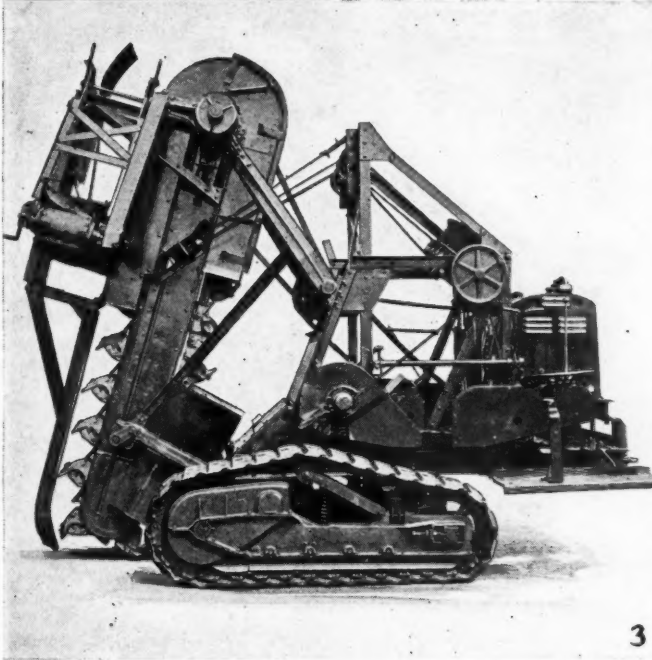
A COMBINATION of small advertisements and big results that you can use to your profit if you are seeking a purchaser or lessee for your plant, city property, mineral, timber or farm land, etc., a new location for your factory, business or home, an investment of any kind, a position, agent, employe or partner, or if you have an announcement to make of interest to business men generally.



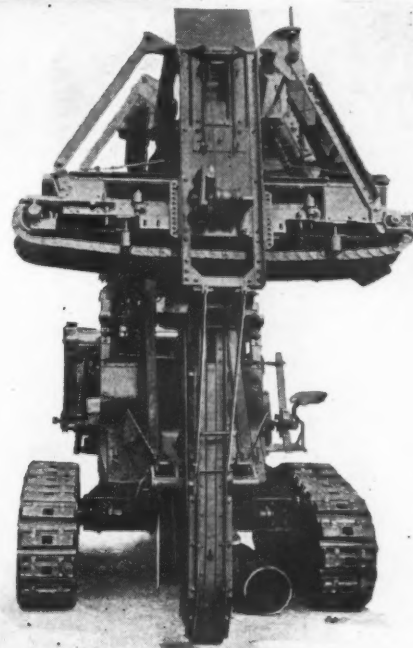
1 & 2—A Barber-Greene Model 44-A Ditcher dug 2800 feet of trench in 5 hours and 15 minutes for the Prairie Pipe Line Co. In a little over a month it completed more than 11 miles of trench, straddling a 6-inch pipe practically all the way.



3 & 4—The Barber-Greene Pipe Line Special Ditcher. Notice the greater crawler width, and the greater clearance from ground to axle. This clearance enables it to straddle all pipes used in oil pipe line work.



3



4

Trenching 11 miles in a month

In little more than a month, a Barber-Greene Ditcher dug more than 11 miles of trench for the Prairie Pipe Line Co., near Joliet, Ill., practically all of the digging being done astraddle a 6-inch pipe. During one run of 5 hours and 15 minutes, 2,800 ft. of trench were dug without a single stop.

Every sort of digging was met with. In crossing a field, a number of stumps were encountered, some measuring 30 inches across. The Barber-Greene pushed them out, going straight on with its digging. At another time, the ditcher crossed a slough, digging all the way with the crawlers completely submerged in mud and water.

This performance was made with a regular Model 44-A Ditcher. Such clear proof of the Barber-Greene's practicability for pipe line work decided us to go further, and produce a ditcher that would meet every possible condition in pipe line digging. The result is the new Barber-Greene Pipe Line Special Ditcher.

Three features distinguish this new model from Model 44-A. The 10-inch crawler has been replaced with a 14-inch crawler, which reduces the bearing pressure per square inch from 12 to 8 pounds. There is greater clearance from ground to axle, and from the inside of the crawler to the digging boom. This extra clearance permits the straddling of all pipes used in oil pipe line work.

All of those features have been retained which have made the Barber-Greene famous for hard and sustained digging, for getting about in quarters too small for other ditchers to work in, and for its uncanny ability to protect pipes.

The first Pipe Line Special is now ditching for J. C. Connor, who is putting in a line for the Prairie Pipe Line Co., Edgerton, Kansas.

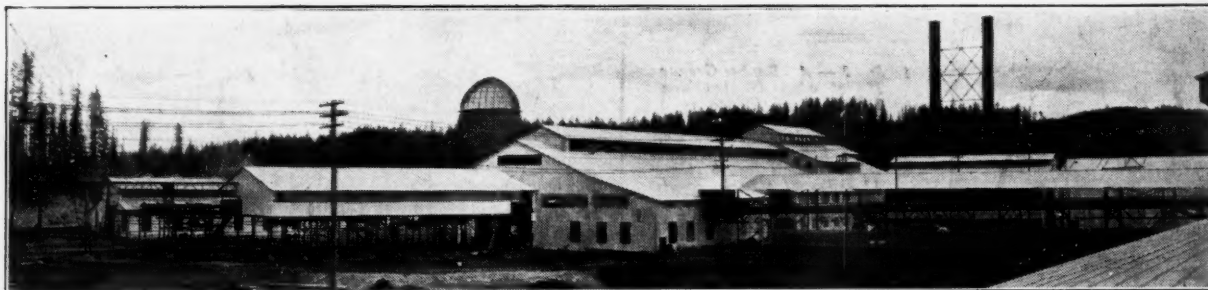
The coupon will bring you the complete details of this versatile new model. Use it also in sending for other valuable trenching data.

Barber-Greene Company, 560 W. Park Ave., Aurora, Illinois

Representatives in fifty cities

BARBER GREENE
 Portable Belt Conveyors Self Feeding Bucket Loaders
 Coal Loaders - Automatic Ditch Diggers - Coal Feeders

BARBER-GREENE COMPANY	
560 W. Park Ave., Aurora, Ill.	
Please send me the data I checked:	
<input type="checkbox"/>	Catalog J on the Pipe Line Special Ditcher.
<input type="checkbox"/>	Catalog J on Model 44-A Ditcher.
<input type="checkbox"/>	"Modern Ditch Digging" which illustrates and explains ditching methods used all over the country.
Name.....	
Street.....	
City.....	State.....



Partial View of Saw Mill, Vernonia, Oregon.

Old Growth Yellow FIR

THE new plant at Vernonia, Oregon, is in full operation, making some of the finest Old Growth Yellow FIR lumber obtainable anywhere.

All stock, two inch and under, is kiln-dried before being dressed and graded in accordance with the grading rules of the West Coast Lumbermen's Association.

We are sure we can please all users of this class of material and are anxious to have an opportunity of serving YOU.

Long and Short Leaf Southern PINE

THE Louisiana Mills are operating in close grain Long Leaf Virgin timber, manufacturing all items of yard stock and building timber.

The Texas plant is operating in close grain Short Leaf, manufacturing all items of 1" and 2" yard stock—all grades being thoroughly kiln-dried.

If you have used our stock, it is unnecessary to mention our manufacture, grades and service; if not, it will be well worth your while to give us an opportunity of serving YOU.

Our nearest office will cheerfully and promptly furnish you with complete information. Our salesmen are ready to serve you.

CENTRAL COAL & COKE COMPANY

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